

About Adams State

"Great Stories Begin Here" is not simply a slogan at Adams State University. Student success is the result of our caring campus culture. Highly qualified faculty focus on teaching and excellence within their disciplines. Individual attention is provided through our small class sizes and student-faculty ratio of 14:1.

Founded in 1921 to serve the rural, south-central region of Colorado, Adams State remains crucial to the area's educational opportunity, economic development, and cultural enrichment.

Adams State University is a state-supported university. We offer a wide variety of associate's degrees, bachelor's degrees, teacher licensure programs, and pre-professional programs, in addition to master's and doctoral degrees. Colorado's first federally designated, four-year Hispanic-Serving Institution (HSI), Adams State is proud to have the most diverse student body of the state's four-year institutions. Total minority enrollment exceeds 50 percent, with almost 40 percent of undergraduate students identifying as Hispanic. A third of our students are the first in their families to attend college.

With about one-third of the student body participating in athletics, the Adams State Grizzlies compete in the NCAA Division II and the Rocky Mountain Athletic Conference (RMAC). Adams State also has a wide variety of student clubs and organizations, including the Adams State Adventure Program, which teaches skills to enjoy the great outdoors.

An intimate campus with tree-lined walkways, state-of-the-art classrooms and laboratories, supportive programs, and vibrant student life await students at Adams State University.

Find out more about Adams State:

- [Campus Information](#)
- [General Information](#)
- [Vision Statement & Outcomes](#)

Welcome from President Tandberg

As a graduate from 2002, Adams State holds a special place in my heart. As you follow your academic path including (for undergraduates) completing Graduation Requirements for Undergraduates, Undergraduate General Education Requirements (often referred to as gen eds), selecting your major (Undergraduate Programs), meeting with your faculty advisor, participating in student clubs and organizations, attending campus events, and discovering your passions, you will become a more confident individual with the skills and knowledge to fulfill your personal and professional goals.

Although it may seem a little intimidating, an academic catalog has all the information you need to successfully complete your degree(s). The catalog is an evolving document, which is why there are links to past catalogs. When you start your academic journey at Adams State the most recent version of the catalog stays with you throughout the entire process.

The gen eds listed are those you will need to complete, even if they differ from a previous year or are changed in prior years. Your major courses (those required to earn a degree in your chosen field) will also remain the same. I cannot express enough the importance of meeting with your faculty advisor at least once a semester (more often never hurts) so the two of you can chart the best course of action to stay on track from your first semester until you cross the stage at graduation.

Not sure of what major you want to pursue, not a problem. That's what gen eds are for - a sampling of curriculum across all departments - to allow you a taste of several avenues of study. Find a discipline you enjoy and stick with it.

The Academic Catalog is not your only source for information and guidance. At Adams State our faculty, coaches and staff take pride in assisting students with any questions or challenges. In particular are two main sources: The One Stop, located in the Student Union Building and Student Support Services, located in Nielsen Library. Both have professionals ready to guide you through financial aid, payment options, and how to find the answers to any question you might have.

There are two factors that inspire me to lead Adams State. The first: our students, many of whom are the first in their family to attend college and receive a degree. The second: Adams State alumni, who are spread around the world as they continue their great story and remain connected to the institution that allowed them to discover their full potential - just like I did.

President David Tandberg, Ph.D.

Vision Statement & Outcomes

[Return to: About Adams State](#)

Adams State University's driving purpose is to provide equitable access to education for all. We promote successful and engaged lives by caring for connecting with, and challenging our students, campus, and community. As Colorado's premier Hispanic Serving Institution, Adams State University draws on its rural location in the San Luis Valley, to serve and empower all students, especially those from historically underserved populations.

Vision Statement

To become the university community of choice for diverse and traditionally underrepresented groups and all who value quality education and inclusivity. As members of the Adams State University community, we value:

- The ability of education to positively change our students' lives, regardless of background or location.
- Teaching and learning strategies to engage our students, and help them apply their learning to life.
- A campus community that embraces its diverse members, and which wants to grow through exposure to the diversity around them.
- A community that strives to exemplify trust, respect and civility in our interactions with all campus members.
- Students who want to engage their professors in meaningful ongoing intellectual discussion and activities.
- Development of lasting personal relationships between students, faculty and staff.
- Embracing innovative ideas and bringing them to fruition through collaboration across the campus community.
- Responsible use of our human, natural, and fiscal resources to support education opportunities for all.
- Faculty and students who engage in scholarship, research, and creative work throughout their Adams Experience.
- Academic Programs that push students to experience and apply learning in ways they did not think possible.
- Collaboration, on and off campus, that is interdisciplinary and intersectional.
- Students, faculty and staff who continuously strive to develop and apply new skills.
- A campus community that seeks to continuously improve everything we do.
- A curriculum that engenders personal and professional accomplishments beyond academic career.
- Quality of life for students and professionals.

Institutional Learning Outcomes

ASU's institutional learning outcomes (Adams Outcomes) specify the knowledge, skills, and abilities that Adams State students are expected to develop as a result of their Adams Experience. These include curricular (General Education and the majors), co-curricular, and extracurricular opportunities.

Program Learning Outcomes

Each academic program identifies specific goals and learning outcomes that identify the knowledge, skills and abilities developed in that degree and needed for related careers.

Accreditation

Adams State University is accredited by the Higher Learning Commission (HLC) at 230 South LaSalle Street, Suite 7-500, Chicago, Illinois, 60604. The HLC can be contacted by phone at 800-621-7440, by email at inquiry@hlcommission.org or by web at www.hlcommission.org. Individual programs are accredited through the National Association of Schools of Music, Commission on Collegiate Nursing Education (CCNE), and the Council for Accreditation of Counseling and Related Educational Programs (CACREP). Adams State University is an institutional member of the American Council on Education, the American Association of State Colleges and Universities, the American Assembly of Collegiate Schools of Business, and the National Association of Schools of Music. Adams State University is also a member of the Hispanic Association of Colleges and Universities (HACU).

Admissions

Adams State University welcomes applications from individuals interested in a personalized, high-quality postsecondary education. The admissions process is designed to support the role and mission of Adams State University, valuing opportunity and access for students of all backgrounds.

Undergraduate Admissions Requirements

Adams State University's driving purpose is to provide equitable access to education. We promote successful and engaged lives by caring for, connecting with, and challenging our students, campus, and community. Our admissions processes consider both academic and personal attributes reflecting this purpose. All applicants are considered for merit scholarships between \$1,000 and \$3,000 per year based on cumulative GPA.

First-time Students

Apply anytime after completion of your junior year in high school. First-time admissions standards pertain to students who are applying to go to college right after high school graduation.

Application requirements

1. ONLINE APPLICATION FOR ADMISSIONS
2. Official high school transcripts. All transcripts must arrive at Adams State in an unopened envelope from the sending institution.
3. Optional SAT and/or ACT test scores.
 - Adams State University is test-optional. Test-optional means you can choose whether or not to submit your SAT/ACT scores to us to consider for your admissions decision.

- Applicants who choose not to submit a test score for admission will not be negatively impacted.
- All SAT/ACT scores must arrive at Adams State either on an official high school transcript or directly from ACT or College Board.
- We encourage students with a GPA below 2.8 to submit SAT/ACT scores to be considered as a piece of their application, but it is not required.
- We encourage students to submit SAT/ACT scores to be used for class placement.
- We do not require the writing portion of either the SAT/ACT.
- Our ACT code is 0496, and our SAT code is 4001.

Mail transcripts and SAT/ACT scores to:

Adams State University
Office of Admissions
208 Edgemont Blvd, Suite 2190
Alamosa CO 81101

Applicants will be notified if additional information is needed.

It is recommended that applicants have completed the Colorado Higher Education Admission Recommendations (HEAR) during high school to be prepared for college:

1. Four years of English
2. Four years of mathematics (Algebra I and higher)
3. Three years of natural/physical science (including two units lab-based science)
4. Three years of social science (including one unit of U.S. or world history)
5. One year of foreign language
6. Two years of academic electives

Home School Students

First-time students who have completed their secondary education through alternative options such as home schooling should submit documentation of their work (e.g. transcript, portfolio, etc.) in lieu of high school transcripts above.

General Educational Development (GED) Students

First-time students who have completed the GED should submit an official GED score report in lieu of high school transcripts above. Students receiving a score of 150 or above in each content area on the 2014 GED (450 or greater on the 2002 version, or 45 or greater on the 1988 version) will be eligible for admission. This route to admission is not to be used by students with a diploma.

High School Equivalency Test (HiSET) Students

First time students who have completed the HiSET should submit an official HiSET score report in lieu of high school transcripts above. Students receiving a score of 8 on each subtest, 2 on the essay, 45 combined score will be eligible for admission. This route to admissions is not to be used by students with a diploma.

Range of Admitted Students

Mid-50% High School GPA*

2.91 - 3.79, 4.0 scale, includes weighted GPA

*GPA and test score ranges of admitted freshmen from Fall 2021 data

Transfer Students

To be considered for admission to Adams State University, prospective transfer students must submit the following documents:

1. A non-refundable, \$30 application fee (waived in October)
2. Official transcripts from all colleges attended
3. Official high school transcripts or GED test scores are required of transfer students with less than 24 transferable credits

Transfer students with 24 or more transferable credits and a cumulative grade point average of 2.3 or higher will be strong candidates for admission into the baccalaureate program. Transfer students with less than 24 college-level credit hours completed will be considered for admission based on prior transfer work, as well as first-time freshman admissions requirements.

Transfer students with a cumulative grade point average below 2.3 will be considered on an individual basis and are strongly encouraged to submit a personal statement and letter(s) of recommendation.

Returning Students

Any student who has previously attended Adams State University and has been out for at least three semesters (including summer term) must apply for readmission by completing an application for readmission. Students may apply for readmission in the Office of Admissions or online at adams.edu. Official transcripts from all colleges attended since last attending Adams State University must be submitted to the Office of Admissions prior to being readmitted.

Non-Degree Seeking Students

Students who do not wish to pursue a degree at Adams State University may apply as non-degree seeking students. Non-degree seeking students must submit an avocational application/registration form to the Office of Admissions. Avocational (non-degree seeking) students are not formally admitted to Adams State University and are not guaranteed admission should they submit a formal degree-seeking application at a later date. Avocational students are not eligible for financial aid or Scholarships.

High School Concurrent Students

Qualified high school students may be eligible to register for courses on campus at Adams State University. To be eligible for the concurrent enrollment program, students must be approved by their high school and meet all prerequisites, including minimum placement testing requirements, for each course they choose to take. Students choosing to take advantage of this program should contact the ASU Concurrent Enrollment Program.

International Students

Adams State University welcomes international students. International applicants need to apply prior to May 1 for the fall semester, October 1 for the spring semester, or February 1 for the summer session. All international students who desire to enter the university must comply with all provisions of the Immigration and Nationality Act. A complete set of credentials, including verification of financial support, must be sent to the Office of Admissions with a formal application for admission and a \$30 non-refundable application fee in U.S. dollars. All information must be in English. The college must have proof of English proficiency. International students should request to have submitted directly to Adams State University official transcripts which have been evaluated by a NACES approved agency to determine US equivalencies for grades, credit hours and institutional accreditation. Payment for evaluation is strictly the student's responsibility. Only post-secondary level coursework deemed to have a US equivalency will be accepted in transfer.

College- or university-level work completed outside the United States will be accepted for transfer, only if the college or university is accredited by one of the U.S. regional accrediting associations. Other collegiate-level work is acceptable only on the basis of credit by examination. This examination will be conducted by the department chair most closely associated with the academic classes in which the student might wish to transfer. Each department chair will decide whether a written, oral, or credit review of the transcript will be necessary to establish credit.

Credit for coursework from non-accredited schools may be given after completion of 24 credit hours and maintenance of a 2.0 or above cumulative grade point average. After students have earned 24 credit hours, they should petition the department chair over their major area as well as the Vice President for Academic Affairs for approval of this transfer credit.

Graduate Admissions Requirements

MBA Admission Requirements

Students desiring to enroll in a Master of Business Administration (MBA) Degree program must have a Bachelor's Degree (B.A. or B.S.) from an accredited institution.

Complete the online application for admission Pay the \$30 application fee at time of application Submit all supplemental admission documents at time of application or through the Self Service Center after application submission:

These documents include:

- Letter of intent - describing interests, background, the emphasis of interest, and professional goals. The letter will be used to assess writing skills for eligibility into the program.
- Resume
- Two (2) letters of recommendation. Recommenders will be sent an automatic email to complete this online letter of recommendation submission during time of application. Please have recommenders' first names, last names, and emails at time of application.
- Send all official transcripts from previously attended institutions.

Transcripts from ASU need not be requested. Unofficial transcripts will not be accepted. Please have all official transcripts sent to:

graduatestudies@adams.edu (for electronic official transcripts).

OR

Adams State University
Office of Graduate Studies
208 Edgemont Blvd., Suite 2300
Alamosa, CO 81101

Correspondence MBA Admission Requirements

Application Requirements:

- Completed Correspondence MBA Paper Application for Admission
- Conferred bachelor's degree from a regionally accredited institution
- Official Transcripts from ALL Previously Attended Institutions.

- Transcripts need to be received from withdrawn institutions.
- Transcripts from ASU need not be requested.
- Unofficial transcripts will not be accepted.
- Resume
- Letter of Intent describing interests, background, and professional goals.
 - Letter of intent will be used to assess writing skills for eligibility into the program.
- Two (2) Letters of Recommendation:
 - Letters must be recently written and be from professional associates who can speak to the applicant's academic strengths and potential.

Please send application materials to:

Adams State University
 Office of Graduate Studies
 208 Edgemont Blvd., Suite 2300
 Alamosa, CO 81101

Counselor Education MA Admission Requirements

Students desiring to enroll in an online Master's Degree program in the School of Counselor Education must hold a baccalaureate degree from a regionally accredited institution. Students enrolled in the final year of undergraduate study may be admitted to graduate study pending verification of receipt of the baccalaureate degree.

Deadlines & Cohort Information

Currently, there are no deadlines. Space is limited each semester, therefore, priority is given to complete applications submitted early. Please note that enrollment/admission may end before the aforementioned deadlines.

Our enrollment management system admits students per semester based on application completion date (the date all of your application materials are submitted and the application fee is paid).

The later you complete your application the greater the potential to be considered for a term later than you anticipated. The earlier the better!

Master of Arts in Counseling online cohorts begin every Fall and Spring semesters.

Admission Documents

A candidate who is interested in enrolling at Adams State University to pursue a Master of Arts degree in Counseling must:

1. Complete the online application
2. Pay the \$30 non-refundable application fee at the time of application
3. Submit ALL supplemental admission documents at time of application or through the Self Service Center after application submission.

These documents include:

Short Essay Questions

Completed on the online application (highly encouraged to write out prior to copy/paste into online application):

- Relevance of career goals-How do you plan to utilize your counseling degree?
- Aptitude for graduate level study-Please explain your preparation for graduate level work. Describe your skills and available resources that will enable you to succeed in this graduate program.

- Potential success in forming effective counseling relationships-Describe your understanding of the counseling process. What do you believe is important in forming an effective therapeutic relationship with your potential clients?
- Respect for cultural differences-Explain how you would navigate working with a person(s) who has/have a different perspective or different values than your own.
- Question assessing personal disposition-Describe (briefly) a hard truth you have learned about yourself as an adult. How did you learn about it? How have you responded to that knowledge?

Two (2) online letter of recommendation forms from professional sources addressing the ability of the applicant to become a counselor, academic strengths, and potential. Recommenders will be sent an automatic email to complete this online letter of recommendation form during time of application. Please have recommenders' first names, last names, and emails at time of application.

4. Send ALL official transcripts from previously attended institutions

Transcripts from ASU need not be requested. Unofficial transcripts will not be accepted. International transcripts must be evaluated by an approved international credential evaluator. Please have all official transcripts sent directly from the institutions to:

graduatestudies@adams.edu (for electronic official transcripts)

OR

Adams State University
Office of Graduate Studies
208 Edgemont Blvd., Suite 2300
Alamosa, CO 81101

5. Download and read the M.A. Counselor Education Student Handbook

Note

Additional information may be requested by the School of Counselor Education before an admission decision can be determined.

The School of Counselor Education Director will notify students of admission decisions.

If you have below a 2.75 cumulative GPA from your last conferred degree, please provide a brief letter explaining the outcome of your GPA, what has changed, and how you feel that now you would be a successful candidate. If you have 12+ credit hours post-conferred degree, please let us know to re-evaluate your GPA with the additional credit.

Admission is not possible at this time for international students.

Counselor Education and Supervision PhD Admission Requirements

Adams State University and the School of Counselor Education welcome your application for admission into our online 60-credit hour Doctor of Philosophy (Ph.D.) in Counselor Education and Supervision (CE&S) program.

Our program is CACREP-accredited and is competitive as we only offer admission to cohorts of 12 students or fewer. The current tuition and fee rate for this program for 2022-2023 is \$592.80 per credit hour plus any additional student fees and books. Fees do not include expenses related to travel and required on-campus attendance.

Please review our Admissions FAQs including a welcome video from the program.

Requirements for Admission Include:

- Regionally or nationally accredited Master's degree* in counseling or a closely related field**
- 3.0 GPA or higher for Master's degree
- Attend interviews, orientations, and residencies as outlined

*Students who are finishing a Master's degree in counseling or a closely related field can apply if the master's degree will be completed before the start of the doctoral program.

**During the admissions process, students' curricular experiences are evaluated to verify completion of coursework, including CACREP entry-level foundational curricular standards, CACREP entry-level professional practice standards, and CACREP entry-level specialized practice area requirements so that any missing content can be completed before or concurrently with doctoral-level counselor education coursework.

Preferences for Admission Include:

- Master's degree in counseling from a CACREP-accredited program
- Two or more years of post-master's counseling experience
- Current clinical license or certification in their state of practice

Information and Deadlines for Fall 2023 Cohort: The CE&S program utilizes a cohort model which begins every Fall semester. The following timeline for the admission cycle is as follows:

- July 1, 2022: Fall 2023 application open
- December 1, 2022: Deadline for all application materials to be verified
- December 16, 2022: Interview status updates distributed via email
- February 8 & 9, 2023: On-campus Interviews*
- February 24, 2023: Admission decision notifications distributed
- May 24 & 25, 2023: On-campus new Ph.D. student orientation*
- August 21, 2023: Fall 2023 semester starts

*In-person/on-campus in Alamosa, Colorado attendance required.

In addition to the application deadlines for the doctoral program, separate deadlines exist for financial aid/student loans:

Required Admission Documents

A candidate who is interested in enrolling at Adams State University to pursue a Doctorate of Philosophy (Ph.D.) in Counselor Education and Supervision must:

1. Complete the online application
2. Pay the \$45 non-refundable application fee during the online application process.
3. Submit ALL supplemental admission documents online via the application Self Service Center. These documents include:

Letter of Intent

The School of Counselor Education does not require Graduate Record Examinations (GRE) test scores for applicants applying for Fall 2023. In lieu of the GRE, applicants' Letters of Intent will be reviewed and considered as a writing sample to demonstrate written communication skills and potential aptitude for academic writing. The Letter of Intent should address the following six questions specifically within 3-4 pages:

1. Why are you pursuing a doctoral degree in Counselor Education and Supervision at Adams State University?
2. What professional experiences do you have related to the counseling profession?
3. What personal and professional dispositions are essential for future counselor educators and supervisors?
4. What experiences do you have in regards to scholarship, professional leadership, and advocacy?
5. Describe your commitment to diversity, equity, inclusion, and social justice.
6. Describe your professional plans with a Ph.D. in Counselor Education and Supervision, post-graduation.

The admission committee will consider a number of factors when making admission decisions. This decision will include at a minimum: (1) academic aptitude for doctoral-level study; (2) previous professional experience; (3) dispositions consistent with professional practice, including self-awareness; (4) oral and written communication skills, (5) commitment to diversity, equity, inclusion, and social justice; (6) potential for scholarship, and (7) potential for professional leadership and advocacy.

Two (2) Reference Request Forms

Forms need to be from associates who can attest to the applicant's academic aptitude for doctoral-level study, professional experiences, personal and professional dispositions, oral and written communication skills, commitment to diversity, and potential for scholarship, leadership, and advocacy. Recommenders will receive an automatic email to complete the letter of recommendation form. Please have recommenders' first names, last names, and emails at the time of application.

Current Resume/Curriculum Vitae

4. Official transcripts (undergraduate and graduate) from ALL previously attended institutions. Any degrees earned (or in progress) must be from regionally accredited colleges or universities.

Transcripts from ASU need not be requested. Unofficial transcripts will not be accepted. International transcripts must be evaluated by a NACES approved international credential evaluation agency. Please have all official transcripts sent directly from the institutions to:

graduatestudies@adams.edu (for electronic official transcripts)

OR

Adams State University
Office of Graduate Studies
208 Edgemont Blvd., Suite 2300
Alamosa, CO 81101

5. Download and read the latest:
Ph.D. Counselor Education and Supervision Student Handbook

Note:

Additional information may be requested by the School of Counselor Education before an admission decision can be determined.

The processing of applications can take several weeks depending on receipt of official transcripts and other required application materials.

Admission is not possible at this time for international students.

Cultural Resource Management Admission Requirements

Admissions Requirements

- Complete the online application for admission
- Pay the \$30 application fee at the time of application
- Submit ALL supplemental admission documents at time of application or through the Self Service Center after application submission. These documents include:

- Letter of intent - describing interests, background, the emphasis of interest, and professional goals. The letter will be used to assess writing skills for eligibility into the program.
- Resume
- Two (2) letters of recommendation. Recommenders will be sent an automatic email to complete this online letter of recommendation submission during time of application. Please have recommenders' first names, last names, and emails at time of application.
- Send ALL official transcripts from previously attended institutions

Transcripts from ASU need not be requested. Unofficial transcripts will not be accepted. Please have all official transcripts sent to:

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OR

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Alamosa, CO 81101

HEAL Graduate Admission Requirements

Students desiring to enroll in a Master's Degree program in Higher Education Administration & Leadership (HEAL) must hold a baccalaureate degree from a regionally accredited institution of higher education (for Executive Leadership Certificate (ELC) option - hold a master's degree or higher). Candidates must currently hold a position within an institution of higher education (some exceptions may apply).

Admission Documents

A candidate who is interested in enrolling at Adams State University to pursue a Master of Arts degree in Higher Education Administration & Leadership or the Executive Leadership Certificate (ELC) must:

- Complete the online application for admission
- Pay the \$30 non-refundable application fee at time of application
- Submit ALL supplemental admission documents at time of application or through the Self Service Center after application submission. These documents include:
 - Resume / curriculum vita, which focuses on your unique strengths and accomplishments in academics, as a volunteer, and professionally
 - Letter of intent
 - MA Only: Essay (2-3 pages in length) addressing specifically how do you see yourself improving educational opportunities for Latino/a students in the future. The Essay will be used to assess writing skills for eligibility into the program.
 - ELC only: Essay (paragraph) completed during the online application addressing what is your leadership goal in higher education.
- Send ALL official transcripts from previously attended institutions.

Transcripts from ASU need not be requested. Unofficial transcripts will not be accepted. International transcripts must be evaluated by an approved international credential evaluator. Please have all official transcripts sent directly from the institutions to:

graduatestudies@adams.edu (for electronic official transcripts)

OR

Adams State University
Office of Graduate Studies

208 Edgemont Blvd., Suite 2300
Alamosa, CO 81101

Additional information may be requested by the Higher Education Administration & Leadership Director before an admission decision can be determined.

Candidates should have an undergraduate G.P.A. of 3.0, the last 30 credit hours of the degree.

Those candidates with a G.P.A. lower than 3.0 may be conditionally admitted until after the first semester, at which time evidence is provided as to the ability to do graduate level work and admission requirements will be reviewed again.

Kinesiology Admission Requirements

Students desiring to enroll in the Master of Science degree programs in the Department of Kinesiology must hold a baccalaureate degree from an accredited institution.

An acceptable minor in physical education or the equivalent from an accredited institution will be considered for the coaching and sport administration programs.

Exercise Science, Coaching, and Sport Administration Programs

Students without undergraduate majors in physical education, exercise science, kinesiology or related areas may be required to take prerequisite or "leveling" courses. These may vary according to the student's specialization.

Applied Sport Psychology Program

Students without undergraduate majors in physical education, exercise & sport science, kinesiology, sport psychology, psychology, business or related areas may be required to take prerequisite or "leveling" courses. These may vary according to the student's specialization.

Application Complete Deadlines

Applied Sport Psychology

Fall 2023 semester cohort - Application complete date: March 1

Coaching

Spring semester cohort - Application complete date: November 1

Summer semester cohort - Application complete date: March 1

Fall semester cohort - Application complete date: July 1

Exercise Science

Fall 2023 semester cohort - Application complete date: July 1

Sport Administration

Spring semester cohort - Application complete date: December 1

Summer semester cohort - Application complete date: May 1

Fall semester cohort - Application complete date: August 1

How to Apply

- Complete the online application for admission
- Pay the \$30 application fee at time of application
- Submit ALL supplemental admission documents at time of application or through the Self Service Center after application submission. These documents include:
 - Letter of intent for Exercise Science, Applied Sport Psychology, and Sport Administration programs - describe interests, background, the emphasis of interest and motivation behind wanting to pursue a degree of interest, and professional goals. The letter will be used to assess writing skills for eligibility into the program.
 - Letter of intent for Coaching program - please discuss why you want to pursue a MS in Coaching from Adams State University (e.g., How will this degree help you achieve your professional goals). Length: 1 page, including formal header.
- Personal Statement for Coaching program - in one to three words, how would you describe your coaching style (i.e., what characteristics define you as a coach). If you are not currently a coach, consider how you want to be as a coach. Please elaborate on why you chose these words. Length: 2-3 paragraphs, not including formal header.
- Current Resume (all programs)
- Two (2) online letter of recommendation forms (all programs). Recommenders will be sent an automatic email to complete this online letter of recommendation form during time of application. Please have recommenders' first names, last names, and emails at time of application.
- Coaching program only: Each recommender, along with completing the form, must also attach a current formal letter of recommendation.

Send ALL official transcripts from previously attended institutions.

Transcripts from ASU need not be requested. Unofficial transcripts will not be accepted. Please have all official transcripts sent to:

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An undergraduate cumulative GPA of a 3.0 in the final 60 hours of the undergraduate degree program is required. Additional information may be requested if a student does not meet the GPA requirement.

If applicant's undergraduate degree is in something other than Kinesiology, the student may be required to complete additional pre-requisites.

The Office of Graduate Studies will notify students of admission decisions.

For further information email hppe@adams.edu

Music Education Admission Requirements

Students desiring to enroll in the Master of Arts in Music Education degree program must:

Hold a baccalaureate degree in music from an accredited institution of higher education,

OR

Hold a baccalaureate degree in another subject

AND

have completed a state licensure program in music,

OR

Hold a baccalaureate degree in another subject

AND

have earned a passing grade on a state standardized licensure exam in music or music education, such as the Program for Licensing Assessments for Colorado Music Educators (PLACE), the Praxis exam, etc.

Application Deadline: August 15

Admission Process

- Complete the online application for admission
- Pay the \$30 application fee at time of application
- Submit ALL supplemental admission documents at time of application or through the Self Service Center after application submission. These documents include:
 - Letter of intent, approximately 1 page, discussing interests, background, the emphasis of interest, and professional goals.
 - A philosophy of education essay, approximately 1 page, that will be used to assess writing skills for eligibility into the program.
 - Resume - include academic, teaching, and professional musical experience.
 - Two (2) online letter of recommendation forms from professional sources addressing the ability of the applicant to become a counselor, academic strengths, and potential. Recommenders will be sent an automatic email to complete this online letter of recommendation form during time of application. Please have recommenders' first names, last names, and emails at time of application.
 - Audition (for hybrid tracks in conducting, composition, and performance only; not required for fully online program)

Send ALL official transcripts from previously attended institutions directly from the institutions to ASU

Transcripts from ASU need not be requested. Unofficial transcripts will not be accepted. Please have all official transcripts sent to:

graduatestudies@adams.edu (for electronic official transcripts)

OR

Adams State University
Office of Graduate Studies
208 Edgemont Blvd., Suite 2300
Alamosa, CO 81101

Additional Requirements

Students applying to the combined online/on-campus program with a concentration in performance or conducting will audition in person or submit an audition recording.

Students applying to the combined online/on-campus program with a concentration in composition will submit representative original compositions with their application. Students must have an undergraduate GPA of 3.0, the last 30 credit hours of the baccalaureate degree.

Those with a GPA lower than 3.0 will be conditionally admitted until after the first semester at which time evidence is provided as to the ability to do graduate level work.

Public Administration Admission Requirements

Admissions Requirements

- Complete the online application for admission
- Pay the \$30 application fee at time of application
- Submit all supplemental admission documents at time of application or through the Self Service Center after application submission. These documents include:
 - Letter of intent - describing interests, background, the emphasis of interest, and professional goals. The letter will be used to assess writing skills for eligibility into the program.
 - Resume
 - Two (2) letters of recommendation.
Recommenders will be sent an automatic email to complete this online letter of recommendation submission during time of application. Please have recommenders' first names, last names, and emails at time of application.

Send all official transcripts from previously attended institutions.

Transcripts from ASU need not be requested. Unofficial transcripts will not be accepted. Please have all official transcripts sent to:

graduatestudies@adams.edu (for electronic official transcripts)

OR

Adams State University
Office of Graduate Studies
208 Edgemont Blvd., Suite 2300
Alamosa, CO 81101

School of Education Admission Requirements

Application Deadlines

All admission documents must be submitted by the application complete deadlines.

Fall Semester | August 1
Spring Semester | December 15
Summer Semester | May 15

Fall, Spring, or Summer cohorts begin for the following programs:

Curriculum and Instruction, MA Online
Curriculum and Instruction STEM, MA Online
Curriculum & Instruction Post-baccalaureate Initial Teaching Licensure Elementary Education, MA Online
Curriculum & Instruction Post-baccalaureate Initial Teaching Licensure Secondary Education, MA Online
Culturally & Linguistically Diverse Education, MA Online
Culturally & Linguistically Diverse Education, Endorsement Only Online
TESOL, Certificate Only Online
Educational Leadership-Principal, Endorsement Only Online
Educational Leadership-Principal, MA Online
Post-baccalaureate Initial Teaching License, Licensure Only Online
Mentor Endorsement, Endorsement Only Online

Fall cohorts begin for the following programs:
SPED, Licensure Only Online
SPED, MA Online

Admission Documents

A candidate who is interested in enrolling at Adams State University to pursue a Master of Arts degree, licensure program, or add an endorsement to a current Professional Teachers License must:

- Complete the online application for admission
- Pay the \$30 application fee at time of application

Submit ALL supplemental admission documents at time of application or through the Self Service Center after application submission. These supplemental admission documents include:

- Letter of intent - describing interests, background, the emphasis of interest, and professional goals. The letter will be used to assess writing skills for eligibility into the program.
- Two (2) online letter of recommendation forms. Recommenders will be sent an automatic email to complete this online letter of recommendation form during time of application. Please have recommenders' first names, last names, and emails at time of application.
- Copy of active professional teaching licensure (not required for licensure programs).

Send ALL official transcripts from previously attended institutions.

Transcripts from ASU need not be requested. Unofficial transcripts will not be accepted. Please have all official transcripts sent to:

graduatestudies@adams.edu (for electronic official transcripts)

OR

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Alamosa, CO 81101

Candidates are evaluated on the following criteria:

Past academic performance, including areas of academic strength, with greater weight given to current course work. Personal statements from the candidate's letter of intent listing goals, accomplishments, and experience. Letter of recommendation forms. We consider the comments made by others who can evaluate the applicant's accomplishments, communication, interpersonal skills, and leadership potential.

Licensure programs have an admission requirement of at least a 3.0 cumulative undergrad GPA with an approved content degree.

Note:

If your cumulative GPA is below 3.0, you may be required to complete the GRE test with a minimum score of 140 Quantitative, 146 Verbal Reasoning, Combined score of at least 297 and 3.5 Analytic Writing.

If GPA is between 2.5 and 3.0 you could be approved/admitted conditionally.

All students must maintain a 3.0 or higher GPA while admitted to continue enrollment in the program.

GRE web link: <https://www.ets.org/gre/> The Educational Testing Service (ETS) code for Adams State University is: 4001

Get Application Support

Our friends at TEACH Colorado have free tools and resources to make applying to our program - and becoming a classroom teacher - easier! Create an account today and immediately access:

An interactive application checklist to keep you on track. \$100 fee reimbursement towards application and testing expenses.

1-on-1 expert advice for any question along the way. How-to guides for eligibility, applications, testing and finances.

A chance to win a \$1,000 scholarship toward tuition.

U.S. History Admission Requirements

Admissions Requirements

- Complete the online application for admission
- Pay the \$30 application fee at time of application
- Submit ALL supplemental admission documents at time of application or through the Self Service Center after application submission. These documents include:
 - Letter of intent - describing interests, background, the emphasis of interest, and professional goals. The letter will be used to assess writing skills for eligibility into the program.
 - Two (2) letters of recommendation. Recommenders will be sent an automatic email to complete this online letter of recommendation submission during time of application. Please have recommenders' first names, last names, and emails at time of application.

Send ALL official transcripts from previously attended institutions.

Transcripts from ASU need not be requested. Unofficial transcripts will not be accepted. Please have all official transcripts sent to:

graduatestudies@adams.edu (for electronic official transcripts)

OR

Adams State University
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Alamosa, CO 81101

Academic Policies

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Academic Advising

Students are expected to assume the responsibility for planning academic programs in accordance with university rules, policies, and requirements. DegreeWorks, Adams State's degree auditing and planning platform, is available to assist students with academic planning and enables them to conduct their own degree audit. To assist students with this planning, an advisory system has been created. It is designed to provide a close relationship between students, advisors

and faculty in an effort to help students make appropriate academic choices to successfully reach their postsecondary goals. Advisors will aid the student in planning coursework during registration and will be available for a conference each semester. Advisors must aid the student in planning course work during registration and must be available for a conference each semester. Details on advisors on how advisors are assigned, how to change or add a major, required approvals, and the responsibilities of both advisors and students are detailed in policy:

- 100-02-01 Academic Advising & Required Approvals - Undergraduate

For graduate students, each new student is assigned an Advisor as soon as he/she is admitted to their program of study. Advisors are either professional advising staff or faculty members in the graduate program. Advisors must aid the student in planning course work during registration and must be available for consultation throughout the semester as described in policy:

- 150-02-01 Graduate Academic Advising Policy

Academic advisors and other university officials strive to prevent errors in advising and registering students. Students, however, are responsible for knowing the requirements of the desired degree programs. This information is available in the catalog. When registering, students are expected to follow the registration procedures as outlined and prescribed by the Office of Records and Registration. Students are responsible for enrollment in courses that are applicable to their degree requirements.

Academic Amnesty

Students must be advised that the academic amnesty provision pertains only to Adams State University and may not be honored by other institutions of higher learning. Students seeking academic amnesty should determine whether there are any negative implications on their federal financial aid eligibility, and/or academic and professional aspirations before seeking academic amnesty.

Undergraduate Students

After three consecutive years of non-attendance at ASU, an undergraduate student may request academic amnesty for a course or courses in one or more semesters. If a student requests amnesty for a course in a given semester, all courses within that semester with a grade of IF, F, TF or D must be included in the request. The request will be reviewed after the student has completed at least one semester since being readmitted to ASU. The student must complete nine credits and earn a GPA of 2.0 for the request to be approved.

When the student's request is approved, grades of IF, F, TF and D for the courses from the prior attendance period will be excluded from the student's grade point average. However, the courses will remain on the student's official transcripts designated with a special code for academic amnesty. The courses/grades that are included in the amnesty process will appear on student transcripts and may be used by professional programs in their admissions decisions. Undergraduate Students choosing to apply for academic amnesty should contact the Office of Academic Affairs.

Graduate Students

Academic Amnesty is designed to provide graduate students previously enrolled in an Adams State University (ASU) graduate program, the opportunity to remove unacceptable grades from the computation of their grade point average (GPA) under certain conditions. Eligibility requirements and procedures for requesting graduate academic amnesty are available in policy:

- 150-11-10 Graduate Academic Amnesty

Academic Standing

Academic progress of all degree-seeking students is monitored each semester. Satisfactory Academic Progress (SAP) requires all officially admitted degree-seeking students, enrolled in courses applicable to an eligible program of study at Adams State University, to maintain progress to degree completion. The SAP policy ensures all degree-seeking students are making progress to complete an eligible program of study through regular qualitative and quantitative monitoring of completion of degree requirements. The SAP policy includes both academic and financial aid repercussions for students who fail to meet requirements.

All aspects of Satisfactory Academic Progress are described in the SAP Policy:

- 100-11-15 Undergraduate Satisfactory Academic Progress
- 150-11-15 Graduate Satisfactory Academic Progress

Additionally, an overview of Satisfactory Academic Progress in regards to Financial Aid eligibility specifically is available:

- Satisfactory Academic Progress

ACT Credit in Advance for English

Undergraduate students with high scores on the English section of the ACT or SAT may receive three hours credit for ENG 101 if they meet or exceed the established threshold in the policy. Transfer students must provide evidence in the form of official test scores at the time of admission in order to receive this credit. Credit will be granted after the census date of the first semester of enrollment:

- 100-07-01 ACT/SAT Credit in Advance for English Policy

Advanced Placement

High school students who have performed satisfactorily in advanced college-level courses before college entrance and demonstrated a requisite achievement (minimum score of three) on tests of the Advanced Placement Program of the College Entrance Examination Board may submit the results to Adams State University for consideration of college credit in alignment with ASU's policy. The maximum credit accepted on the general exams is 18 semester hours in the areas of humanities, natural and social sciences. Credit will be granted after census date of the first semester of enrollment:

- 100-13-04 AP Scores Policy

Alternate or Registration PIN

A 6-digit number assigned to every undergraduate degree-seeking student on a semester basis (excluding summer) to ensure the student has met with his or her advisor prior to enrolling in courses to ensure progress toward degree completion. This number shall be required at the time of initial registration each fall/spring.

Auditing Courses

Students in good academic standing may broaden and deepen their educational experience by auditing courses. Auditing permits a student to attend a course without being required to complete exams and assignments. It is the

university's intent, however, that auditing be a serious commitment on the part of the student and not disrupt the student's progress toward a degree. Careful consultation with the student's academic advisor is recommended. Music (activity) courses available for auditing purposes require the permission of the instructor. Contact the Department of Music for more information.

A student who wishes to audit a course must mark the NC (No Credit) column for the course on the appropriate registration form or NW when registering via the Web. The registration process must be completed before the end of the add/drop period. An audited course does not carry academic credit, nor does it satisfy any degree or program requirement. Regular tuition and fees will apply. Audited courses are not eligible for the COF tuition stipend or financial aid.

Graduate students may enroll in graduate level courses for no credit. Approval from the Graduate Program Designee, instructor, and Assistant Vice President for Graduate Studies (AVPGS) is required. Students are responsible for completion of all degree requirements as specified in this catalog and should acquaint themselves with all requirements before beginning a degree program:

- 100-05-01 Undergraduate Auditing Courses Policy
- 150-05-01 Graduate Auditing Courses/No Credit Policy

Availability of Classes

Adams State University does not offer all of the classes listed within this catalog each semester or each year. Adams State University reserves the right to withdraw from its offerings classes with insufficient enrollment during any particular semester. Other courses may be added if there is sufficient demand.

In some programs, certain courses may be offered on an alternate-year basis or as determined by demand. Mandatory advising is in place to assist our students in planning and making satisfactory progress towards obtaining their degrees:

- 100-05-02 Undergraduate Availability of Classes Policy
- 150-05-02 Graduate Availability of Classes Policy

Baccalaureate Students

Entering first-year students seeking the B.A., B.F.A., or B.S. degree can choose to satisfy the degree requirements listed in the catalog in effect at the time of their first semester of enrollment at Adams State or any catalog after, provided they remain continuously enrolled. Students may select to fulfill the major requirements from one catalog and general education requirements from another catalog. Students who interrupt their studies for more than two semesters (i.e., fall or spring) must satisfy the degree requirements from the catalog in effect during the semester in which they return.

Associate Degree Students

Entering first-year students seeking an A.A. or A.S. degree can choose to satisfy the degree requirements of the catalog in effect at the time of their first semester of enrollment at Adams State or any catalog after, provided they remain continuously enrolled. Students may select to fulfill the major requirements from one catalog and general education requirements from another catalog. Students who interrupt their studies for more than two semesters (i.e., fall or spring) must satisfy the degree requirements from the catalog in effect during the semester in which they return:

- 100-05-04 Catalog Applicability Policy

Classification of Students

Students are classified according to the number of semester hours of credit they have earned. First-Year students are students who have earned fewer than 30 semester hours; sophomores are those who have earned at least 30 hours but fewer than 60; juniors are those who have earned at least 60 hours but fewer than 90; seniors are those who have earned 90 hours or more:

- 100-05-07 Classification of Students Policy

Continuous Enrollment

Entering first-year students seeking the A.A., A.S., B.A., B.F.A., or B.S. degree can choose to fulfill the graduation requirements for any year after (and including) the semester they first enrolled at Adams State University, provided they remain continuously enrolled. Students may elect to fulfill the major requirements from one catalog and the general education requirements from another catalog. Students who interrupt their studies for more than two semesters (e.g., fall or spring) will use the requirements for the semester they return as their first semester.

Course Load

Undergraduate Course Load

The typical course load for undergraduate students is 15 to 16 semester hours. Undergraduate students must maintain at least 12 semester hours to be eligible for full financial aid. Academic full-time status requires enrollment for 12 semester hours during any semester. Tuition surcharges will be assessed on course loads in excess of 16 credit hours. Students desiring to take more than 20 semester hours per semester must seek permission from their advisor. Additional ramifications for an atypical course load are described in the Undergraduate Course Load policy:

- Course Overload Approval Form - Undergraduates
- 100-05-09 Undergraduate Course Load Policy

Graduate Course Load

Full-time graduate class load is six hours or more per semester. Maximum enrollment is 15 semester hours during fall and spring semesters. Course load for the summer session is 12 hours during the regular six-week summer session and six hours during the early summer session. Summer limits are exclusive of one-day workshops. Individual departments may have different requirements for summer students. Graduate students must be enrolled in at least three semester hours to be eligible for any financial aid. Course overloads require the approval of the student's academic advisor or program designee and the vice president for Academic Affairs:

- Graduate Student Overload Approval Form

Course Numbers

Courses numbered 001 through 099 are considered basic skills courses and will not be counted toward the required hours for an Associate of Arts or Science or Bachelor of Arts, Fine Arts or Science degree. Students enrolled in basic skills courses will be assessed a surcharge. Courses numbered below 300 constitute the lower division. Courses numbered 300 through 499 constitute the upper division. Course numbering is based on a pattern that places all classes

numbered 100-199 in the first year, 200-299 in the second year, 300-399 in the third year, and 400-499 in the fourth year.

Those courses numbered 500 to 799 are graduate courses. Students may take a class numbered more than one year above their class rank with special permission from the chair and the instructor of the class. Master's level courses are numbered 500 to 699. Doctoral-level classes are designated with numbers 700 to 899.

Special course number suffixes:

- X79: special topics courses offered periodically to meet student special interest in the field
- X89: in-service courses designed for staff development and/or in-service credits taught off campus with subject matter determined by school district needs.
- X92: workshops or short courses offered on an intermittent basis to meet the needs of special constituents
- X99: independent study courses (taught on an independent basis through a mutual agreement between an instructor and a student) providing opportunity for individual research/study into problems of special interest in the field.

These courses may not be used to satisfy program requirements without prior approval:

- 100-05-10 Undergraduate Course Number Policy
- 150-05-07 Graduate Course Number Policy

Credit by Examination

Students may petition to receive academic credit for a course if, through prior learning and study, they have attained knowledge and skills that constitute the requirements of the course. Students may receive approval of their petitions if the criteria specified in the credit by examination policy been met. Grades for coursework completed by examination will be recorded by the instructor using either a P/F grade or A-F grade mode by submitting the Credit by Examination form to the Office of the Registrar:

- 100-07-03 Credit by Examination Policy
If credit by examination is requested for a course offered by the university, but not being offered during that particular term, the student may enroll for the course under independent study.

Credit for Military Experience

Students who have served in the military and wish to have their experience considered for university credit will have their military credits reviewed to determine whether any credit may be applied to their degree program. Appropriate paperwork, including Joint Service Transcripts or other official military transcripts shall be provided to the ASU Transfer Coordinator. The Transfer Coordinator will evaluate the military credit in consultation with the Veterans Coordinator and make the decision on how the credit will be awarded. The Credit for Military Experience describes in more detail how credits will be awarded:

- 100-07-04 Credit for Military Experience Policy

Culminating Activity

Each department requires graduate students to pass a culminating activity (comprehensive exam, thesis, etc.).

Please contact your program's chair, director, or your advisor for details.

Deadlines

Please see events.adams.edu for important deadlines regarding applications for graduation, financial aid, comprehensive exams and others.

Degree Completion Time Limit

Undergraduate Students

Students are expected to complete degree requirements in a timely manner. Normally 15 to 16 credits per semester at the undergraduate level are necessary to accomplish these expectations.

Graduate Students

A student pursuing a master's degree has six calendar years from the date of first registration in an Adams State University graduate program. A student pursuing a doctoral degree has eight calendar years from the date of first registration in the Adams State University Department Counselor Education. Extensions may be granted in accordance with policy:

- 150-09-03 Graduate Degree Completion Timeframe Policy

Developmental Courses

Adams State University places students into the appropriate English and Mathematics classes based on a variety of placement methods described in the English Placement and Math Placement policies. Some students may be required to enroll in a developmental math class, or classes dependent on their placement scores. Students should work with their advisor to ensure that they are enrolling in the appropriate class or classes to prepare them for college level math in their major.

Developmental courses at Adams State are graded on a satisfactory/unsatisfactory basis. They may not, however, be used to meet graduation requirements per CDHE and institutional policy. These courses are used to determine financial aid status and academic/athletic eligibility as earned hours for freshmen.

Colorado Department of Higher Education requires that all developmental coursework be taken within the first 30 credit hours of enrollment:

- 100-14-01 Math Placement
- 100-14-02 English Placement

Evaluation of Degree Requirements

Students are responsible for the fulfillment of graduation requirements. Academic advising is available to students who are undecided about their academic major. Students will need to work closely with their academic advisor after a major/minor has been declared. Some students will need more than one advisor, particularly students seeking teacher licensure, or seeking to complete multiple majors/minors.

Students may apply for graduation online by logging in to their One Stop Student Services account. Students must notify by email their advisor(s) and the department chair(s) in which their major/minor is located that they have submitted an application for graduation. Those students who are pursuing the associate of arts or associate of science degree, or a Bachelor of Arts in Interdisciplinary Studies, should notify their advisor. Graduation applications must be submitted online unless mitigating circumstances prevent this.

Applications must be submitted by the end of the semester prior to the semester in which the student plans to graduate but no later than August 31 for fall and January 31 for spring (or the next business day if these dates fall on a holiday or weekend). Those students who are admitted to an AA/AS degree program and wish to apply for graduation must submit a copy of the graduation application to the Degree Audit Administrator located in the Records Office.

A late fee of \$20 will be imposed on applications received after February/September for spring/fall graduation, respectively. Degree Audits will be completed in accordance with policy, and the student must complete all requirements before the degree will be conferred:

- 100-12-02 Evaluation of Degree Requirements Policy

Final Examinations

Undergraduate

Final exams must be taken during the time scheduled in the final exam schedule. Students requesting alternative exam schedules due to conflicts with evening classes should consult with their instructor(s). Students with genuine and demonstrable family crises or medical emergencies that require an alternative schedule should consult the relevant School Director. For more details regarding final exam scheduling and expectations for how exam time should be used see the relevant policy:

- 100-05-11 Undergraduate Final Examinations Policy

Graduate

Final exams and/or papers must be completed according to the requirements provided by the instructor and in accordance with departmental policy. Students requesting an alternative exam schedule due to a crisis and/or conflict should consult with their instructor. Expectations for faculty availability can be found in the policy:

- 150-05-08 Graduate Final Examinations Policy

Grade Appeals

The grading of student learning is solely an instructor's right and responsibility. Students are expected to read the course syllabus provided by their instructor at the start of each semester, complete each assignment, and communicate with their instructors frequently. If a student believes his/her final grade in a course does not fairly reflect his/her performance, the student has the right to appeal according to the procedures outlined in the grade appeal policy. Formal grade appeals must be filed in writing (email acceptable) within 30 days after the grade is posted:

- 100-11-04 Grade Appeals Policy
- 150-11-04 Graduate Grade Appeals Policy

Grade Point Average Computation

The Adams State University grading system is based on a standard four-point scale, and GPA is calculated by dividing total quality points by credit hours attempted:

- 100-11-03 GPA Computation Policy

Graduate Student Minimum GPA Requirement

Graduate students must maintain a cumulative grade point average of 3.0 or higher for all coursework taken in pursuit of a master's degree, initial teaching license, or endorsement. Graduate students are subject to dismissal if their cumulative GPA falls below 3.0. Students earning a grade of D or F in any course will not be able to count the course toward degree completion and must retake the course. Students earning a grades of B- or C may be required to repeat the course depending on department requirements. Additional information regarding grades, programmatic requirements, and eligibility for grade forgiveness can be found in policy:

- 150-11-07 Graduate Minimum GPA Policy

Progress Grade Reporting

Students should meet with their instructors throughout the semester to discuss their academic progress. Students will receive monthly progress grade reports which will be based on current status in the course. Students should be aware that progress grades may change based on their attendance, class participation, assignment completion, and overall performance on graded work. If a student has a question at any time regarding his/her standing in any course, the student should refer the question to the instructor directly.

Final grades will be available online as early as the Tuesday evening following the final week of courses.

Grading System and Quality or Honor Points

The grading system used at Adams State is alphabetical grades A-F. Plus/minus grades are issued at the discretion of the instructor and should be indicated in the syllabus. Grades are reported at the end of each term. Credits for courses graded 'F' are used to compute GPA but do not count toward graduation. P credits may or may not transfer to other colleges and universities:

- 100-11-05 Undergraduate GPA Grading System & Quality or Honor Points Policy
- 150-11-06 Graduate Grading Systems & Quality or Honor Points

Graduate Credit for Undergraduate Students

Senior students may take courses for graduate credit if their undergraduate cumulative grade point average is at least 2.75. Graduate credit earned during this period may not be applied to the undergraduate degree. Consent of the student's advisor and department chair is required. The approval process should be initiated with the Office of Graduate Studies. Students are classified undergraduate and are assessed undergraduate tuition for all courses. However, graduate-level courses are not eligible for COF, the College Opportunity Fund stipend.

Undergraduate courses, including 300- to 400-level classes, will not be accepted by Adams State University graduate programs. (updated 01/23/2020)

Graduation with Honors

Baccalaureate students with a cumulative grade-point average of 3.5 to 3.74 graduate cum laude (with honors). Students with a cumulative grade-point average of 3.75 to 3.89 graduate magna cum laude (with high honors). Students with a cumulative grade-point average of 3.9 or higher graduate summa cum laude (with highest honors). Honors are determined based upon a baccalaureate student's cumulative GPA at the end of the semester prior to the semester in which the student will graduate. However, these minimum requirements must be maintained through graduation in order to receive the honors notation on official transcripts:

- 100-11-06 Latin Honors Policy

Incompletes

The grade of incomplete (IN) is a temporary mark assigned for course work of acceptable quality that students, through no fault of their own, are unable to complete. It is not given for neglected or unsatisfactory work. The student must complete all remaining course requirements as specified by the instructor no later than one year following the end of the term in which the class was attempted. If a final grade has not been assigned after the deadline, the IN will be changed to an IF. A grade of IF is equivalent, in terms of GPA, to a grade of F. A copy of the Incomplete Agreement form should be filed by the instructor with the Office of Academic Affairs. More information on special circumstances for correspondence courses and the repercussions of incomplete grades can be found in the policy:

- 100-11-08 Undergraduate Incomplete Grade Policy
- 150-11-09 Graduate Incomplete Grade Policy

Independent Study Courses

Credit by independent study must be approved by the instructor and the department chair in writing, prior to enrollment. The subject area to be studied will be determined by agreement between the student and instructor with the approval of the vice president for Academic Affairs.

Forms may be obtained at the One Stop Student Services Center or Office of the Registrar.

- 100-02-05 Independent Study Courses Policy

International Baccalaureate Program

Adams State University recognizes the International Baccalaureate (IB) program and accords special consideration for students presenting IB credentials on an individual basis. ASU follows the state policy for awarding IB credit. Specific scores and credits allocations are outlined in the policy. Official transcripts should be sent from the International Baccalaureate Organization for evaluation:

- 100-13-13 International Baccalaureate Recognition Policy

Pass/Fail

For all courses graded pass/fail, the grade of P is equivalent to the letter grade C- or better. This statement applies to all courses built in the pass/fail grade mode:

- 100-11-09 Pass/Fail Courses Policy

Repeating Courses

Undergraduate students may repeat courses, however, only the most recent credit hours attempted are computed in the GPA. Previously attempted courses and grades remain on the academic record but are not computed in the GPA. After repeating a course, students should submit a GPA update form to have their GPA recalculated. Forms are available at the One Stop or online at adams.edu/onestop and may be submitted to the One Stop Student Services Center.

The following courses may be repeated with each enrollment calculated in the GPA, up to the number of credits listed:

- ID 179 Semillas de la Tierra, 8
- MUS 210 Mariachi Ensemble, 8
- MUS 245 Band, 8
- MUS 246 Jazz Ensemble, 8
- MUS 247 Concert Choir, 8
- MUS 248 Jazz Singers, 8
- MUS 250 Orchestra, 8
- MUS 249 Chamber Ensemble, 8
- MUS 252 Music Theatre Workshop, 4
- MUS 255 Wind Ensemble, 8
- MUS 410 Mariachi Ensemble, 4
- MUS 446 Jazz Ensemble, 4
- MUS 448 Jazz Singers, 4
- MUS 449 Chamber Ensemble, 4
- MUS 455 Wind Ensemble, 4
- MUS 457 Chamber Choir, 4
- PSYC 379 Prevention Awareness Crew, 5
- SPCH courses, unlimited repeating

Students who receive approval to take courses from other institutions need to be aware the grade earned will not replace a grade earned at Adams State:

- 100-11-10 Repeating Courses Policy

Satisfactory/Unsatisfactory Courses

For all courses graded satisfactory/unsatisfactory, the grade of S is equivalent to the letter grade C- or better. This statement applies to all courses built in the satisfactory/unsatisfactory grade mode:

- 100-11-11 Satisfactory/Unsatisfactory Courses Policy

Semester Honors

Students earning a minimum of 12 hours of graded credit in a single term with a term grade-point average of 3.5 or higher receive semester honors:

- 100-11-12 Semester Honors Policy

Semester Hours Credit

Course credit is based on units designated semester hours. In general, one credit hour represents one class period of 50 minutes per week per semester and, normally, about two hours per week of preparation outside of class by the student. Laboratory courses offer one semester hour of credit for each two or three hours of scheduled work in the laboratory during a week.

Semester System

The university operates on a semester system, with the calendar year divided into fall, spring, and summer sessions. The summer session (see below) is integrated with the two semesters of the academic year. This arrangement makes it possible to complete the baccalaureate degree requirements through almost continuous study or arrange the normal work of two semesters in any desirable sequence.

Student Conduct

Students are expected to conduct themselves both within and outside the university in a way that will reflect favorably on themselves and Adams State. A student may be dismissed for misconduct following the judicial process for violations of the Student Handbook. In the event of such dismissal, tuition and fees will not be refunded in whole or in part.

Student Evaluation - Graduate Students

The faculty reserves the right to request withdrawal from the program of any graduate students who, in the faculty's professional judgment, fail to satisfy academic requirements of the program including scholarship, academic or professional ethics, skills or characteristics, professional suitability for the programs in which they are enrolled, or engagement in misconduct. These decisions are at the discretion of the faculty and the appropriate School Director and shall be made in accordance with the general procedures for academic retention and dismissal set forth in the Graduate Student Handbook for the program. When necessary, the academic retention and dismissal procedures within respective program handbooks will be utilized.

Summer Session

Adams State University maintains a summer session designed for undergraduate and graduate students interested in pursuing a college education and in qualifying for degrees and licenses, thus offering students a year-round uniform academic program. Through full-time, year-round attendance, students may reduce the time of their four-year program. Summer session course offerings and availability vary by program.

Token Number

Issued to newly admitted students and is required (along with student ID numbers) to obtain your user name and password to gain access to our online services.

If you have misplaced your token number, please contact the One Stop or Computing Services to have your token number reset.

Time Limitation on Credit

Courses more than ten years old with grades of C or better will be evaluated for acceptance into an undergraduate degree by the Transfer Coordinator, Distance Advisor or Correspondence Education Advisors, and/or the Office of Academic Affairs in consultation with the relevant program chair(s). If the course is to be applied towards the major it must be evaluated by the program chair for the program in which the credit would be issued. Time-sensitive courses (STEM) over 10 years old will not be accepted towards general education or major credit unless approved by the program chair for the relevant discipline. They may be applied towards elective credit:

- 100-13-11 Transfer of Credits Over 10 Years Old

Transcript of Credits

A transcript is a comprehensive record of a student's permanent academic history, including transferred credits accepted by ASU (listed by college/university with the total credits transferred from each), and certified by the University Registrar. In addition to a student's course of study, the academic transcript includes credit earned by examination, academic standing, grade point average and all honors, degrees and awards conferred by Adams State University. Official transcripts are printed on tamper-proof security paper or may be sent electronically via our secure website and include the Adams State University seal and the signature of the University Registrar. While every effort is made to ensure prompt delivery of requested transcripts, please allow 10 business days for processing requests. Graduating students will receive a complimentary official transcript after the University has verified degree completion (usually within 6 weeks after the Commencement Ceremony). Transcript requests that include recently earned degrees may be placed online (see link below) after students have had their degree(s) awarded. Transcripts will not be released for students who have an outstanding indebtedness to the University or for those students on whom the University has placed a transcript hold. Adams State University will not be held responsible for deadlines which are not our own:

- Unofficial Transcripts for Degree-Seeking Students
- Official Transcript Request

Transferring Credit or Degrees

Graduate Transfer Credit

A maximum of six semester hours of transfer credit from other accredited institutions may be used to fulfill graduate-level degree, licensure, or endorsement requirements. Students must request permission to transfer course work using the Petition to Transfer Credit Form. Students must provide official transcripts and course syllabi and obtain the advisor's signature. Students requesting transfer or substitution of prior coursework must declare so within their first semester of study. Students who take courses and ask for approval after the fact are in danger of losing those credits regardless of the source of their advisement:

- Graduate Transfer Policies

Undergraduate Transfer Credit

Currently enrolled undergraduate students who plan to take courses at another college or university (during the summer break for example) and transfer the credits to Adams State must have the coursework approved by the program chair or School Director in the content area prior to enrolling as a transient student elsewhere. General education courses may be approved by the Records Office or its designee with the Transfer Credit Approval Form. Failure to receive this approval may result in the transfer courses not being accepted toward an Adams State University degree or teacher licensure program. Guaranteed transfer courses in Colorado can be viewed online at Colorado's statewide guaranteed transfer (gt) program.

- Undergraduate Transfer Policies

Transferring Credits

- Adams State will accept coursework in which grades of A, B, C, P (Pass), CR (Credit) and S were earned for transfer credit. Courses in which a grade of D was earned are not accepted for transfer unless the course is an integral part of an Associate of Arts or Associate of Science degree.
- Students with prior learning through AP, IB, CLEP, DSST, military credits, etc will have credit assigned in accordance with the relevant policy.
- Vocational courses and courses which are listed as "no equivalent" at Adams State can be considered for credit after the student completes 24 hours of course work at Adams State with a 2.0 or higher GPA. The credit must be approved by the program chair of the student's major.
- There is no limit to the number of transfer hours accepted. However, students are required to complete a minimum number of 30 institutional hours to obtain a Bachelor of Art, Bachelor of Fine Arts, or Bachelor of Science degree.
- Transfer students are urged to visit the campus and meet with the Transfer Coordinator to ensure a smooth transition of transfer credits.
- Transfer credit more than 10 years old must be evaluated by the Transfer Coordinator (if the course falls under the general education requirements 'or equivalent') or the program chair of the area offering the course for which the credit would be issued.
- Writing assessment is an institutional graduation requirement that by completing ENG 102 or equivalent and a writing intensive course designated by the major.

Coursework Transfers

Individuals with course work seeking admission to degree programs at Adams State University (ASU) will be evaluated using ASU's general admission policies and the transfer policies outlined below. Courses will be evaluated in three categories:

- Category 1: General Education Courses, their equivalents (both in-state and out-of-state), and courses specified in the guaranteed transfer process with grades of 'C' or better will be evaluated by the Transfer Coordinator, Distance Advisor, CEP Advisor or designee for acceptance.
- Category 2: Upper Division courses (300-499) or courses specifically related to a student's intended major with grades of 'C-' or better will be evaluated for acceptance by the program chair for which the credit would be issued.
- Category 3: Credits that fall outside Categories 1 and 2 (i.e. elective credits) will be evaluated for acceptance by the Transfer Coordinator, Distance Advisor, CEP Advisor or designee and/or the program chair for which the credit would be issued.

Undergraduate Degree Transfers

Individuals with an in-state or out-of-state BA/BS degree (including more than 10 years old) will have their general education courses accepted in total as meeting ASU's general education requirements. The First Year Seminar requirement will be waived. Graduation requirements and all requirements in the major must be completed at ASU in accordance with the current policies:

- 100-13-10 Transfer Policies: BA/BS Degrees

Individuals with an in-state A.A./A.S. degree (including degrees more than 10 years old) will have their general education courses accepted in total as meeting Adams State's general education requirements. Individuals with an out-

of-state A.A./A.S. degree (including degrees more than 10 years old) will have their general education courses accepted if they have successfully completed at least one course in each of the following areas: communication (English), history, physical science, college-level math, arts and humanities, and social sciences. Courses from these areas that have not been completed may be completed at Adams State. Upon completion, the entire degree will be accepted:

- 100-13-08 Transfer Policies: AA/AS Degrees

Individuals with an Associate of Applied Science degree or an Associate in General Education degree will have their general education courses accepted in total as meeting Adams State's general education requirements if they have successfully completed at least one course in each of the following areas: communication (English), history, natural and physical sciences, math, social sciences, arts and humanities. Courses from these areas that have not been completed may be completed at Adams State. Upon completion the entire degree will be accepted as meeting ASU's general education requirements. The First Year Seminar requirement will be waived:

- 100-13-09 Transfer Policies AAS/AGS Degrees

In order to receive transfer credit from non-accredited schools, the student must complete 24 credit hours with a minimum 2.0 GPA. After successful completion of these hours previous coursework will be reviewed for ASU credit:

- 100-13-12 Transfer Policies: Credit from Non-Accredited Schools

Undergraduate Degree/Program Requirements

- Undergraduate students who have not completed the GT Pathways core curriculum will be required to meet all Adams State general education requirements in effect at the time of admission.
- The Bachelor of Arts, Fine Arts or Science degree is conferred upon completion of a minimum of 120 academic (non-PE) semester hours composed of general education, major requirements, and elective credits. Additionally a scholastic average of at least 2.0 must be earned in all work attempted at Adams State. A grade of D+ or lower in any course required for a major or minor will not count toward degree completion. (A 2.75 minimum GPA is required for admission to the Teacher Education Preparation Program.)
- Forty-two non-PE semester hours of the course work required for a degree at Adams State must be upper-division (300- to 499-level) academic hours.
- Transfer students must meet the Adams State requirements in effect during the first semester of their enrollment at Adams State.
- All students must fulfill and pass the writing proficiency requirements. All students pursuing Bachelor of Arts, Fine Arts or Science degrees must complete ENG 102 - Communication Arts II GT-C02 or equivalent, and a designated writing intensive course for their major. Students seeking an Associate of Arts or Associate of Science degree meet this requirement by passing ENG 102 with a grade of C- or better.
- Requirements for majors are listed in this catalog.
- Courses to be substituted in the Educator Preparation Program require teacher education department chair approval.
- A minor will not be granted until a student completes the requirements for a bachelor's degree.
- PE credits of all levels (100 to 499) may not be applied toward the total number of required credits for an associate's degree or a bachelor's degree. In relation to this, 300- to 499-level PE courses cannot be counted toward the 42 upper-level credits required for the conferring of a B.A./B.S. degree.
- Courses numbered 500 or above, or a course numbered 400 or above taken for graduate credit, will not be counted toward the completion of an undergraduate degree except according to policy for specific programs.
- A grade of C- (1.67 on the GPA scale) is considered passing; however, students must maintain a cumulative GPA of at least a 2.0 to be considered for graduation. Students must also maintain a GPA of 2.0 across their general education requirements. Students are responsible for satisfying specific program requirements imposed by their departments such as the minimum 2.75 GPA requirement for admission into the Teacher Education Preparation Program.
- 100-09-13 GPA/Grade Requirements

Withdrawal from Enrollment at Adams State

Undergraduate Student Withdrawal

If an undergraduate student plans to withdraw from enrollment in all classes at Adams State, the student must initiate the complete withdrawal process according to the Complete Withdraw policy. Failure to follow explicitly the procedures on policy may result in unexpected financial repercussions.

- 100-02-10 Complete Withdraws

Graduate Student Withdrawal

Prior to dropping or withdrawing from graduate coursework, individuals should consider the impact a course drop/withdrawal will have on grades, tuition & fees, and federal financial aid. Students considering dropping courses and/or withdrawing from a graduate program are encouraged to review the Office of Graduate Studies' withdrawal information to make a well-informed decision. If a registered student elects to drop a course or withdrawal from a program, the student must follow the proper drop/withdrawal procedure as specified in policy:

- 150-02-05 Complete Withdrawals

Campus Information

Return to: [About Adams State](#)

Below you will find a brief introduction to a variety of topics. For more detailed information, consult the the Adams State University website by clicking the logo at the upper left of this page.

Buildings/Campus Tour

The 97-acre Adams State University campus has undergone ongoing improvements over the past 20 years. These include upgraded student housing, remodeled academic buildings, athletic fields, a stadium complex, and parking lots.

The Nielsen Library

The center of an institution of higher education should be its library. Adams State University's Nielsen Library, constructed of Colorado red stone and accented with white columns and trim, was completed in 1973. It houses TRiO Student Support Services, the Grizzly Testing and Learning Center, and the Student Success Center and Academic Advising.

The Nielsen Library provides for the selection, acquisition, cataloging, classification, storage, and retrieval of information published in a variety of print and non-print formats. Some of the special features of the library include study areas equipped with individual carrels; access to articles and databases, research guides, books and e-books, courses reserve materials, audio options and a seed library; the Ruth Marie Colville Room and the Dr. Jack Kyle Cooper Room, which house valuable material on the history of the San Luis Valley, Colorado, northern New Mexico, and the Southwest; and the Archive Room, which contains materials and memorabilia from the university. An electronic classroom for library instruction is located on the first floor, and an information commons, the Grizzly Testing and Learning Center are located on the second floor, and additional classrooms are located on the third floor. The library is a member of the Western Colorado Academic Library Consortium (WCALC) and Colorado Academic Library Consortium (CALC). The Nielsen Library offers an introductory research course teaching students how to effectively use its resources and services for academic work and lifelong learning.

Instruction Buildings

Adams State University's academic facilities feature the latest technology and computer equipment for all disciplines.

- The Music Building, renovated in 2011, has state-of-the-art music technology and meets modern acoustical standards. The building has a recording studio, two rehearsal halls, a percussion studio, four practice rooms, and musical instruments.
- McDaniel Hall, was also remodeled in 2011 and offers an optimal learning environment with technology-enhanced classrooms and multiple study areas.
- Leon Memorial Concert Hall is an upgraded recital venue with new seating and acoustic enhancements and features a Steinway grand piano and historic pipe organ.
- The School of Business features SMART classrooms, lecture halls, and advanced computing labs.
- The Adams State Theatre is equipped with two modern stages, lighting, and production equipment.
- The Art Building features a SMART classroom, a circular gallery, and modern studio facilities for ceramics, sculpture, metals, painting, drawing, photography, printmaking, and graphic design.
- Porter Hall houses modern laboratories and computer labs for the science and mathematics programs. It also features the Edward Ryan Geological Museum.
- The Zacheis Planetarium and Observatory offers Adams State students unique opportunities to expand their knowledge and experience well beyond the classroom through interaction with the public or individual research projects.
- The Nursing program features a well-equipped simulation laboratory. Our nursing students are well prepared for clinical experience with instruction that features state-of-the-art medical equipment, and simulation technology.
- The East Campus, a former elementary school, was renovated to house the Kinesiology program, Outdoor Education and Stewardship, and Food Studies programs. Performance and exercise science labs, and a Food Studies lab and professional kitchen are highlights of this building.

Student Union Building

The SUB is the lively, friendly hub of the campus. It houses the One Stop Student Services Center, La Mesa Dining Hall, the Bookstore, and Co-curricular Recreation and Engagement (CoRE) Office. Also located in the SUB are offices of the student government, student newspaper, radio station and a 24-hour computer lab. Other amenities include a food court, coffee shop, convenience store, hair salon, art supply store, meeting rooms and the Loft with snacks, games, and television sets.

Rex Activity Center

Rex Activity Center is a lively facility for fitness, wellness, and recreation. It has state-of-the-art cardiovascular equipment and offers a variety of fitness options, including aerobic sessions, weight training, racquetball, basketball, volleyball, and a climbing wall. It is a great place to get in shape and meet friends. Rex is also the home of the Adams State Adventure Program and equipment rental shop.

Plachy Hall

The center of physical and recreational activities on campus is Plachy Hall and its surrounding grounds. The facility houses two basketball courts, a modern weight room, and indoor Olympic-size swimming pool. It is adjacent to soccer, lacrosse, softball, and football fields, as well as Rex Stadium and outdoor track and the High Altitude Training Center.

High Altitude Training Center

The 85,000 square-foot High Altitude Training Center is a "bubble"-an air supported dome structure- that is home to indoor track and field events. The center features a 200-meter, 8-lane track with a synthetic rubber surface that provides high quality shock absorption, skid resistance, force reduction, and overall comfort for athletes. It also provides space for jumps, vaults, and throwing events, as well as spectator seating and public restrooms.

Richardson Hall

Adams state's historic Richardson Hall, the oldest building on campus, was completely remodeled in 2015. The building was named after the college's first president, Ira Richardson. It houses- administrative offices, including the Office of the President, the Offices of Student Services, Academic Affairs, Financial Aid, Registrar, and the Graduate School Office, as well as other administrative offices. The Admissions Office and Welcome Center are located on the first floor.

Also housed in Richardson Hall are an auditorium and the Luther Bean Museum, as well as Upward Bound, Counseling and Career Services, the Nursing Department, and Extended Studies.

Residence Halls

The Residences at Rex is the jewel in the crown of student housing at Adams State University, with four-bedroom apartments that feature views of two mountain ranges and the football playing field. Other residence halls vary in size, accommodation, lifestyle, and regulations.

History

Adams State University, founded in 1921 by the Colorado General Assembly, opened June 15, 1925. The university's namesake is long-time San Luis Valley resident William "Billy" Adams, a former state senator and Governor of Colorado who tirelessly pursued establishment of the college. Adams State carries out his vision of making quality higher education both accessible and affordable for underserved populations, such as underrepresented minority, first-generation, and low-income students. Founded specifically to educate teachers for rural communities, the university has evolved into a comprehensive liberal arts university offering associate's, bachelor's, master's, and doctoral programs. Adams State University maintains its vital role as a leader in teacher education throughout southern and western Colorado. Throughout its history, Adams State has been crucial to enhancing the area's educational opportunities, economic development, and cultural enrichment.

Location

Adams State University is located in Alamosa, Colorado, a city of 10,000 people. Situated in the San Luis Valley in south-central Colorado, the campus is surrounded by the breathtaking beauty of the Sangre de Cristo and San Juan mountain ranges. With peaks towering more than 14,300 feet, the mountains provide a variety of winter and summer activities and account for the brisk winter nights and sun-filled days for which the Valley is known. A sense of history and adventure unique to the Southwest creates an environment conducive to both academic and social growth. Denver is 220 miles to the north, and Albuquerque, New Mexico, is 200 miles to the south. Within a two-hour drive are five ski areas and historic towns such as Taos, Santa Fe, and Creede.

Explore the San Luis Valley

Adams State University is centrally located in the world's largest alpine valley surrounded by two mountain ranges, one that is the source of the Rio Grande. It is also home to the nation's newest national park, the Great Sand Dunes National Park and Preserve, the oldest church in Colorado, located in Conejos, and the oldest town in the state, San Luis. The history of the area is a rich blend of Hispanic and other cultures that influence life in the San Luis Valley. Outdoor recreation opportunities abound in every season. Movie theaters, restaurants, and pubs offer entertaining nightlife.

General Information

Return to: [About Adams State](#)

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Academic Instructional Technology Center

AITC Purpose Statement:

Support instructors and students in all modalities of instruction through course design, instructional training, and technology support to foster student success.

AITC Vision Statement:

To make a quality education accessible to our diverse student body through the use of technology.

Accessibility Services

Diversity through Equal Opportunity

Adams State University is committed to providing equal education opportunity for persons with both permanent and temporary disabilities in accordance with the Affirmative Action Policy of the University and in compliance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. The mission of the Office of the Affirmative Action Officer's Accessibility Services - Institutional Rights Services program is to assist Adams State University in creating an accessible community where individuals with disabilities have an equal opportunity to participate in or benefit from all College programs, activities, and services.

Objectives

1. To provide direct, reasonable accommodations and support services for individuals with disabilities.
2. To encourage self-determination, independence, and personal responsibility for students with disabilities.
3. To provide resources, advocacy, collaborative services, and outreach throughout the College community.
4. To promote an open and welcoming environment around campus for individuals with disabilities.
5. To inform and educate the Adams State University community about the ADA/Section 504, and an appropriate institutional response. In support of its commitment to provide equal educational opportunity, ASU provides a variety of reasonable services and accommodations to students with disabilities. Reasonable accommodations include but are not limited to, extended testing time, testing in a reduced distraction environment, testing with the assistance of reader and/or scribe, priority seating, and interpretation services.

Accessibility Services
719-587-7746
oas@adams.edu

Bookstore

The University Bookstore, where students can purchase necessary textbooks, general reading books, supplies, gifts, soft goods, network supplies and art supplies, is located in the Student Union Building. The Bookstore is operated by Textbook Brokers.

Career Services

Adams State University Career Services is here to help you navigate the career planning process. We can help you to explore your career options, create a customized career plan, identify and gain practical experience, and research and prepare for your next step after graduation. Students who use our services early in their academic careers are more likely to find jobs and internships than those who wait. We welcome all ASU undergraduates, graduate students, and Alumni!

Class Attendance

Class Attendance Requirements

Federal legislation requires Adams State University to verify that students who receive financial aid begin attending courses by census date of each semester. Please be aware that if you have financial aid for your courses with Adams State, you **MUST** participate in an academically related activity in each course by census date of the semester of enrollment.

Academically Related Activities Definition

Academically related activities include, but are not limited to, physically attending a class where there is an opportunity for direct interaction between the instructor and students; initiating contact with a faculty member to ask a question about the academic subject studied in the course; participating in an online discussion about academic matters; submitting an academic assignment; taking an exam, an interactive tutorial or computerassisted instruction; or attending a study group that is assigned by the school.

Academically related activities do **NOT** include activities where a student may be present, but not academically engaged, such as logging into an onlineclass without active participation, participating inacademic counseling or advisement, living in institutional housing, or participating in the school's meal plan.

In a distance education context, logging into an online class is not sufficient, by itself, to demonstrate academic attendance by the student. You must participate in class or otherwise be engaged in an academically related activity, such as by contributing to an online discussion or initiating contact with a faculty member to ask a course-related question. Completion of an online syllabus quiz constitutes attendance.

Non-attendance Mandatory Course Drop

If you do not begin attending academically related activities in each course by census, you WILL BE DROPPED from your course(s) and therefore, lose financial aid eligibility for the semester. Any financial aid funds disbursed to your student account or refunded to you must be returned to the U.S. Department of Education.

Please be aware of Adams State's census (course add/drop) dates every semester by referring to the Academic Calendar.

Counseling and Career Services

Counseling Center

The Counseling Services Staff would like to extend the warmest invitation to you to please come by, call or complete the form to make an appointment to chat. We always try to have a staff person available for your counseling needs.

The goal of personal counseling is to provide you with assistance in resolving personal and relationship concerns which could negatively impact your academic progress. Our counselors will work with you to help you decide which direct services might best meet your needs.

We Offer:

- Crisis Counseling
- Individual Counseling
- Group Counseling
- Couples Counseling
- Family Counseling
- Consultation Services
- Depression and other Mental Health Screenings
- ACUDETTOX (ear acupuncture)
- Workshops
- Outreach and Prevention Services

Eligibility

We offer counseling and consultation services to:

- Currently registered on campus Adams State students
- Non-student spouses or partners in a committed relationship with an Adams State student and their children
- High School concurrent students enrolled at Adams State
- Faculty and Staff, limited consultation services with referral to Employee Assistance Program

Request an appointment

- 719-587-7746
- counseling@adams.edu

Financial Aid

Pursuing a college degree is one of the best investments in your future that you can make. The Office of Financial Aid is here to help you review your college costs and apply for financial aid programs. Our mission is to make an outstanding ASU education affordable and the financial aid and scholarship process as simple and straightforward as possible. Each of our staff is dedicated to your success and we look forward to assisting you with your financial aid applications.

- About 91% of our full-time students qualify for financial aid
- ASU Foundation offers over 100 scholarships
- The average award is around \$12,000
- Our Affordability Ranking
- Our tuition window can save you money each semester. Full-time students (12 credit hours per semester) can take up to 16 credit hours for no additional cost.
- Learn more about Value and Affordability

First-Year Seminar

First Year Seminar (FYS) serves as the launching point into your college journey and the Adams Experience. Students will choose a FYS course theme of their choice and engage in a unique seminar that will grow their academic skills and interests. FYS courses will encourage students to explore issues that matter to them, consider big questions, engage and share ideas, challenge assumptions, and grow into successful students. The FYS program will impact students knowledge, skills, and confidence as they begin their college journey through the Adams Experience.

Graduate Studies

The Office of Graduate Studies, along with Adams State's dedicated faculty and staff, works to ensure access and opportunity for graduate study throughout Colorado and the United States. Our programs are recognized for their academic excellence and diverse delivery methods.

We deliver our programs to suit your needs

- Full or part-time
- On-campus or online
- Support for your academic success with our Graduate Student Support Services The Office of Graduate Studies serves our constituents by:
 - Admitting students to the graduate programs
 - Working with graduate students from inquiry to graduation
 - Offering graduate student support services
 - Advocating for graduate programs and students

International Student Assistance

Adams State defines an international student as a student in non-immigrant status who is not a U.S. citizen or does not have approved and finalized U.S. permanent residence, refugee status, or political asylum. Adams State is a Student and Exchange Visitor Program (SEVP) certified institution (school code: DEN214F00174000) with the ability to produce I-20s for international students to potentially receive F-1 student visas upon official acceptance to Adams State.

Adams State's PDSO and DSO Contact Information

Please contact us anytime at admissions@adams.edu or 1-719-587-8146 or 1-800-824-6494
Resources

- SEVIS Information
- Visa Information
- Study in the States

- I-94 FAQ Sheet
- I-901 SEVIS Fee Payment Tutorial
- I-901 SEVIS Fee Payment Site
- U.S. Embassies, Consulates, and Diplomatic Missions
- International Admissions Requirements
- Maintaining Eligibility
- Scholarships Financial Aid Information
- International Employment
- Traveling
- Curricular Practical Training (CPT)
- Optional Practical Training (OPT)
- FAQ

Mathematics Help Lab

The Mathematics Help Lab is located in Porter Hall, Room 245. ASU students needing help in any mathematics class through Calculus II are encouraged to visit the Mathematics Help Lab for free tutoring. Students should not expect the tutors to simply work homework problems for them.

Nondiscrimination Notice

Adams State University prohibits and will not tolerate discrimination or retaliation that violates federal and state law or the university's discrimination policies. The university does not discriminate on the basis of race, age, color, religion, national origin, gender, sexual orientation, sex (including sexual harassment), veteran status, or disability. The university complies with Titles VI and VII of the Civil Rights Act of 1964, the Civil Rights Act of 1991, the Education Amendments of 1972 (Title IX), the Age Discrimination in Employment Act of 1973, the Americans with Disabilities Act, Executive Order 11246, C.R.S. § 24-34-301 et seq., and § 504 of the Rehabilitation Act of 1973.

One Stop Student Services Center

The One Stop Student Services Center serves as a student center for the offices of registration and records, student business services, and financial aid. Based on Adams State's belief in the value of the individual, its mission is to deliver unparalleled student customer service. Your One Stop Student Services Center will provide quality, professional and courteous assistance in support of your academic and educational financing objectives. One Stop counselors are knowledgeable in enrollment, financial aid, billing and payments or can help you with general information or concerns about the business aspect of being a student.

Location: ASU Student Union Building
 Phone: 719-587-7306
 Toll-free: 1-866-344-1687
 Fax: 719-587-7366
 E-mail: onestop@adams.edu

Orientation for New Students

New student orientation is designed to facilitate the transition of new students into the university, prepare new students for the educational opportunities available at Adams State and initiate the integration of new students into the

intellectual, cultural, and social climate of Adams State University. This program reinforces new students' decision to attend Adams State University. Orientation for new students, which includes transfer, non-traditional and commuter students begins the week before classes and continues through the first week of classes.

Photo and Videotape Policy

Adams State University often takes or commissions photos and videotapes of students, faculty and staff, and campus visitors.

These images are taken in classrooms and labs, in the library and other study areas, at college events, and elsewhere around campus.

Likewise, the Adams State Athletic Department photographs and records athletic events, athletes, and spectators.

Adams State University reserves the right to use these photographs/video clips as a part of its publicity and marketing efforts.

Students who enroll at Adams State do so with the understanding these photographs might include them and be used in publications, both printed and electronic, and for publicity.

Police Department and Parking Services

The Adams State University Police Department is the primary law enforcement provider for the college community. ASU PD police officers are fully academy trained and state certified peace officers with powers of arrest on and off campus. The department also employs civilians and student workers in clerical, parking management, student escort and building security patrol positions. The department works closely with other law enforcement agencies including Colorado State Patrol, the Alamosa Police Department, Alamosa County Sheriff's Office, and federal law enforcement agencies. The department provides crime prevention services and information to the Adams State University community. The Police Department assists other college services in emergency planning and safety inspections to maintain a safe campus environment. Police and emergency services are available 24 hours daily, year-round.

ASU Police Department

Location: #1 Petteys Hall

Police Department Dispatch: 719-589-5807 (24 hours per day)

Non-emergency phone: 719-587-7901 (business hours)

EMERGENCY: 911

Refunds of Student Credit Balances

We deliver refunds of credit balances on student accounts and pay student employment (work study) earnings with BankMobile Disbursements, a technology solution, powered by BMTX, Inc. A credit balance may come from payment of financial aid (grants, scholarships or loans) credited to a student's account, overpayment of charges, or adjustments for tuition, fees, or housing. More information about BankMobile Disbursements.

Financial Aid Disbursement

Financial aid funds disbursed to a student's account are first credited to the student's educational expenses. Once education expenses are paid in full and if a credit balance remains, the credit balance is refundable to the student. Refunds are processed within 14 business days of when the credit balance was created.

Some financial aid requirements are as follows:

- Student's first class has started
- Student is registered for the number of credit hours for which aid is awarded
- Student is taking classes for credit. Classes taken as "no credit" are not aid eligible
- Classes taken apply to the student's program of study

To view our third-party servicer contract for refund management, go to the Client Contracts & Profile page.

Student Bill of Rights (Undergraduates)

The General Assembly of Colorado hereby finds that students enrolled in public institutions of higher education shall have the following rights:

1. Students should be able to complete their associate of arts and associate of science degree programs in no more than sixty credit hours or their baccalaureate programs in no more than one hundred twenty credit hours unless there are additional degree requirements recognized by the commission;
2. A student can sign a two-year or four-year graduation agreement that formalizes a plan for that student to obtain a degree in two or four years, unless there are additional degree requirements recognized by the commission;
3. Students have a right to clear and concise information concerning which courses must be completed successfully to complete their degrees;
4. Students have a right to know which courses are transferable among the state public two-year and four-year institutions of higher education;
5. Students, upon completion of core general education courses, regardless of the delivery method, should have those courses satisfy the core course requirements of all Colorado public institutions of higher education;
6. Students have a right to know if courses from one or more public higher education institutions satisfy the students' degree requirements;
7. Student's credit for the completion of the core requirements and core courses shall not expire for ten years from the date of initial enrollment and shall be transferable. (C.R.S. §23-1-125)

Student Conduct

Students are expected to conduct themselves both within and outside the university in a way that will reflect favorably on themselves and Adams State. A student may be dismissed for misconduct following the judicial process for violations of the Student Handbook.

In the event of such dismissal, tuition and fees will not be refunded in whole or in part.

Student Support Services

Student Support Services (SSS) provides services to first generation, low-income students and students with disabilities at Adams State University.

Services for qualified students include tutoring, mentoring, academic and life skills workshops, supplemental financial aid for those who qualify, and educational field trips.

The purpose of SSS is twofold: to increase retention and graduation rates of eligible students and to foster an institutional climate supportive of first-generation, low income students and students with disabilities. Because the program is federally funded, all services are free to qualified students. Students who have recently graduated from high school, have already been accepted into Adams State University, and are planning to attend Adams State for the fall

semester are eligible to apply for SSS Summer Scholars Program. Students live on campus for three weeks and are enrolled in a three-credit English class. They also receive credit for the Academic Achievement Strategies course and one credit for a math strategies course.

Tuition and Fees

The Board of Trustees for Adams State University, the governing entity, reserves the right without notice to alter tuition and fee charges prior to the first day of any semester. Tuition and fees are posted annually on Adams State University's Website.

Tuition & Fees Payment Deadlines

- Payment in full or payment for fall and spring semesters must be made or finalized by the census date of the semester, see the Academic Calendar on the Adams State website. Pay online or in person by visiting the One Stop Student Services Center in the Student Union Building. If a down payment is made online, a payment arrangement must still be finalized by the student.
- Online payment by credit card (VISA, Mastercard, Discover) or from checking or savings is available at the Onestop. Payment can be made at the cashier's window located at the One Stop Student Services Center in the Student Union Building or mailed to Adams State University, 208 Edgemont Blvd. Suite 2050, Alamosa, CO 81101.

Late Charges

A \$40 late charge is assessed when payment in full is not received OR payment arrangements are NOT completed by 4 p.m. on the census date of the semester. Additional late charges of \$10 per month are assessed if payment in full has not been received. There will also be a \$10 late fee for payment plans that are not current.

- Tuition and fees charges for no credit or audit courses are the same as courses taken for credit. Courses taken for no credit are not eligible for financial aid or the COF stipend.
- The Board of Trustees for Adams State University reserves the right, without notice, to alter tuition and fee charges prior to the first day of any school term.

Payment Plans

Payment in full or payment arrangements for Fall and Spring semesters must be made or finalized by census date of each semester, see the Academic Calendar. Payment plans can be set up at Ebill.

Terms

- A \$15 deferred payment fee per semester is assessed for a payment plan.
- On-campus students set up a payment plan online.
- Students using VA or 3rd party payments contact Student Business Services at 719-587-7728 for assistance on setting up a payment plan.
- Interest charges are not passed on payment plans.

Late Fees

- If an account is not paid in full or payment arrangements are not finalized by the second week of the semester, a \$40 late fee is assessed. Additional late charges of \$10 per month are assessed until a payment agreement is finalized.
- If a student makes the required down payment but does not complete the tuition promissory note, late fees as listed above will apply.

- A \$10 monthly late fee is assessed for payment plans that are not current. If a payment plan is set up and current, the student will be allowed to register for future semesters. If a payment plan is not set up or is in default, account must be paid in full to register for a subsequent semester.

Tutoring

The Grizzly Testing and Learning Center provides coordination of academic tutoring services. Services are provided on a first-come, first-serve basis and are free of charge. Tutoring is provided by trained peers in a group setting. In addition, the Grizzly

Testing and Learning Center coordinates note-takers and test-readers for students with accommodations under ADA. It also serves as an alternative test site and a placement testing site. The Grizzly Testing and Learning Center is located on the second floor of Nielsen Library. For more information, please contact us at 719-587-8189 or testingcenter@adams.edu.

Veterans

The University is authorized by the Colorado State Approving Agency for Veterans Education in accordance with federal law to educate students receiving benefits through the Veterans Administration. For more information regarding veterans' benefits, call 719-587-8452 to schedule an appointment.

Writing Studio

The Writing Studio supports student learning and faculty and staff in their development as writers and as educators. Skilled peer tutors provide help to students with every part of the writing process, from generating ideas about assignments to final editing. They offer assistance for every kind of writing in each discipline, ranging from freshman composition papers, biology papers or poetry, to graduate portfolios. The Writing Studio furnishes an extensive collection of books and handouts relating to the writing process, and it has computers available for student use. Tutors are in the Writing Studio free of charge to help students learn to proof and perfect their own work and to help faculty and staff with their writing and course needs.

All Courses

ANTH 179 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

ANTH 192 - Workshops

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

ANTH 199 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interests in the field. By faculty permission and approval of the department chair.

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ANTH 205 - Physical Anthropology

3 Credit(s)

The course will examine physical anthropology as a sub discipline of anthropology. The goal is to understand how the physical realities of being human affects the nature of culture. The central theme will be the evolution of humans from the earliest hominid forms to modern Homo sapiens. The course will focus on the mechanisms of evolution, an understanding of primate behavior in general, and the fossil evidence for hominid development.

ANTH 279 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

ANTH 292 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

ANTH 299 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

ANTH 300 - Archaeology

3 Credit(s)

This course will provide an overview of archaeological method and theory with a particular emphasis on American archeology, and provide a general survey of prehistory with an emphasis on the western United States.

ANTH 310 - Anthropological Linguistics

3 Credit(s)

After a general introduction to the nature of language (descriptive linguistics) this course will focus on human communication and the uses of language (psycholinguistics and sociolinguistics) and on the language cognition relationship (cognitive anthropology and symbolic anthropology).

ANTH 330 - Humans and Water

3 Credit(s)

This class will explore the relationship between humans and water through space and time, focusing on the American West. We will look at how different cultural groups interact with and manipulate water, as well as how they view the natural resource. In addition, we will analyze how changes in water resources influenced human cultures.

ANTH 339 - Field School in Archaeology

6 Credit(s)

The purpose of this course is to provide students with the basic skills, and the theories from which they are derived, necessary to do archaeological fieldwork. The student will learn basic techniques of site identification and recording, excavation, and artifact processing and analysis. In addition, they will learn instrument surveying and introductory applications of geographic information systems. The skills taught will be appropriate for either prehistoric or historic sites.

ANTH 349 - Anthropology Internship

3 to 6 Credit(s)

This course provides the student with meaningful hands on experience in the field of Anthropology. Students will engage with internship work at a research library, museum, community organization, government agency, or other applicable institution to enhance their knowledge of sources, research methods, institutional cultures, and potential work environments.

ANTH 360 - Forensic Anthropology

3 Credit(s)

This class examines the science and methods of physical anthropology as it relates to the medico-legal work done to identify unknown human remains in atypical circumstances. This introductory course will introduce students to human osteology and dentition in relation to identifying age, sex, stature, and ancestry, as well as bone pathologies and techniques for estimating time of death and post-mortem changes. As part of the course, some visual materials will depict trauma and decomposition of human remains.

ANTH 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

ANTH 392 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

ANTH 399 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

ANTH 450 - Southwest Archaeology

3 Credit(s)

This course explores the greater Southwest from the earliest human inhabitants to Spanish colonization. We will discuss significant changes and trends in subsistence, technology, social systems, and political organization over roughly 15,000 years; from hunter-gatherers following mammoths on the landscape to the Pueblo Revolt of 1680. The course will give students an appreciation of the adaptations of people in the Southwest to an often harsh environment, while also introducing them to the methods and theories archaeologists use to understand the past.

ANTH 460 - Medical Anthropology

3 Credit(s)

This course will explore the cross-cultural significance of health and wellness from an anthropological perspective. We will delve into the complex interplay of biological, psychological, social, environmental, and political-economic processes on the concepts of illness, suffering, and healing. Particular emphasis will be placed on the ethnographic approach to the lived context in which wellness and suffering are experienced, narrated, and addressed.

ANTH 471 - Senior Seminar in Anthropology

3 Credit(s)

This is a capstone course which will cover the central theories that have driven the field of anthropology over the last 200 years. All students enrolled in the Senior Seminar will also write their Senior Comprehensive Examinations as part of the departmental requirement for all History/Government majors.

ANTH 479 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

ANTH 492 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

ANTH 499 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

ANTH 539 - Archaeology Field School

1 to 6 Credit(s)

Through actual field experience, the student will learn basic techniques of site identification and recording, excavation, and artifact processing and analysis. In addition, they will learn instruments surveying and introductory applications of geographic information systems. The skills taught will be appropriate for either prehistoric or historic sites.

ANTH 579 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

ANTH 592 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

ANTH 599 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Chair.

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

AR 105 - Introduction to Art Criticism

3 Credit(s)

This course introduces students to art criticism and critical thinking in the field of visual art. Exercises in reading about art, observing art, and talking and writing about art, will develop the student's ability to discuss their own work and a wide variety of artworks by others. Students will be introduced to and practice techniques for reading, thinking, writing, and speaking critically as applied to art.

AR 179 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

AR 192 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

AR 194 - Alt Gen Ed (Arts & Humanities)

3 Credit(s)

This course number designates any alternate general education offered through the art department on a one-time or irregular basis. Courses with this numerical designation are considered to meet the student learning outcomes for general education in Area II Arts & Humanities. Courses with this numerical designation are not guaranteed transfer courses and may not apply towards general education requirements at other institutions. The specific course title and content may vary.

AR 199 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 216 - Introduction to Art Education

3 Credit(s)

This course is a study of art education as influenced by educational and philosophical developments throughout history as well as an exploration of current art education topics and approaches for teaching art in traditional and non-traditional settings. A background check must be completed through the Department of Teacher Education. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

Teacher Education Background Check Passed

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 252 - Beginning 3D - Form and Extended Media

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to fabrication and subtractive processes and materials. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in introductory metal fabrication, CAD/CAM technology, metal casting, and wood or stone carving. This course has a course specific fee to cover the costs of some materials.

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 279 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

AR 292 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

AR 294 - Alternative General Education (Arts & Humanities)

3 Credit(s)

This course number designates any alternate general education offered through the art department on a one-time or irregular basis. Courses with this numerical designation are considered to meet the student learning outcomes for general education in Area II Arts & Humanities. Courses with this numerical designation are not guaranteed transfer courses and may not apply towards general education requirements at other institutions. The specific course title and content may vary.

AR 299 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

AR 301 - Typography

3 Credit(s)

This course is intended primarily for art majors who chose graphic design as their area of emphasis. It is also open to any other art major or non-art major. This course will focus on a broad study of typography, its terminology, history, and application in the field of graphic design.

Prerequisite(s):

AR 206 Minimum Grade: C- OR T

AR 305 - Art Theory

3 Credit(s)

A lecture course that covers major themes in art theory and asks students to articulate which aspects of art theory relate to their studio work and how they relate.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T
AND

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

AR 306 - Illustrator

3 Credit(s)

This course is an advanced design class. Using Adobe Illustrator, students will study design concepts related to computer graphics, illustration, and typography as well as historical traditions in graphic design.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR 309 - Intermediate Drawing II

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 308 Minimum Grade: C- OR T

AR 310 - Photoshop

3 Credit(s)

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

AR 312 - Design for the Internet**3 Credit(s)**

This course will provide an introduction to theories and practical experience with graphic design as applied to the Internet. Students will study the basics in web page and web site design using current industry standard software, HTML and XHTML. Within the course, students will create web pages and sites suitable for course work, professional purposes, and personal use. Students will also explore common web page formats and functions. Emphasis will be on the aesthetics of Internet design.

AR 320 - Intermediate Painting I**3 Credit(s)**

Intermediate study of painting media with emphasis on perceptual abilities and personal expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- or T
AND

AR 220 Minimum Grade: C- or T

AR 321 - Intermediate Painting II**3 Credit(s)**

Intermediate study of painting media with emphasis on perceptual abilities and personal expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 320 Minimum Grade: C- OR T

AR 334 - Elementary School Art Education Methods**3 Credit(s)**

A course designed to explore the theoretical and practical approaches to implementing a program of art education for grades K-6. Emphasis is placed on strategies that will encourage a discipline-based art education model of instruction. Through hands-on involvement in various art media, students are given opportunities for creative problem solving. A background check must be completed through the Department of Teacher Education. This course has a course specific fee to cover the costs of some materials. A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must

be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Teacher Education Background Check Passed

AND

AR 216 Minimum Grade: C OR T

AND

ED 200 Minimum Grade: C OR T

OR

ED 220 Minimum Grade: C OR T

AR 335 - Secondary School Art Education Methods

3 Credit(s)

In this advanced course of study, students are given the opportunity to explore more completely those professional practices utilized in the teaching of art in the secondary school. Through hands-on involvement in various media, students are given opportunities for creative problem solving. This course is intended for juniors and seniors. Freshmen and sophomores cannot enroll in this course. A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

ED 200 Minimum Grade: C OR T

OR

ED 220 Minimum Grade: C OR T

AND

AR 334 Minimum Grade: C OR T

AND

Teacher Education Background Check Passed

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting**3 Credit(s)**

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture**3 Credit(s)**

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing**3 Credit(s)**

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

AR 360 - Intermediate Printmaking

3 Credit(s)

Further exploration of printmaking using all processes. Emphasis on composition, media exploration, and color processes. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 260 Minimum Grade: C- OR T
OR

AR 261 Minimum Grade: C- OR T

AR 364 - History of Art I

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms prehistoric times to the Eighteenth Century.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 365 - History of Art II

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms from the 18th Century to the 21st Century. Additionally this course includes a brief survey of the arts of African, Asian, and Native American cultures.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 367 - Women Artists in Art History

3 Credit(s)

A survey of women artists in the history of art from antiquity to the present.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 368 - Performance Art

3 Credit(s)

A study of Performance Art with an emphasis on its history, theory, and the creation of original performances.

AR 379 - Topics in Art

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

AR 380 - Intermediate Photography

3 Credit(s)

Continued exploration of photography as an art medium using traditional darkroom techniques. Emphasis on concept and creative expression. Introduction to color, pinhole, large format, and non-silver techniques. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 280 Minimum Grade: C- OR T

AR 381 - Intermediate Digital Photography

3 Credit(s)

Continued exploration of digital photography as an art medium. The course will delve further into photographic applications in Adobe Photoshop with emphasis on maximizing image quality using masks and blending modes. Introduction to fine art printing and papers. Emphasis on concept and creative expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 281 Minimum Grade: C- OR T

AR 392 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

AR 399 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

AR 401 - Advanced Graphic Design

3 Credit(s)

An advanced study of the design relating to the work of the graphic designer. Students learn PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 306 Minimum Grade: C- OR T
AND

AR 310 Minimum Grade: C- OR T

AR 405 - Seminar in Art

3 Credit(s)

This course is a seminar class that combines research into art theory and art history with discussions about the conceptual, formal and technical aspects of studio work.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

AR 410 - Advanced Drawing I

3 Credit(s)

Advanced personal concepts, media experimentation, and aesthetics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 309 Minimum Grade: C- OR T

AR 411 - Advanced Drawing II

3 Credit(s)

Exploration of drawing as a medium for expression with emphasis on developing a personal style. Progress towards developing a cohesive body of work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 410 Minimum Grade: C- OR T

AR 422 - Advanced Painting I

3 Credit(s)

Advanced studio problems, emphasizing perceptual and conceptual abilities and personal expression as related to painting media. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 321 Minimum Grade: C- OR T

AR 423 - Advanced Painting II

Advanced studio problems, emphasizing perceptual and conceptual abilities and personal expression as related to painting media. This course has a course specific fee to cover the costs of some materials.

AR 454 - Advanced 3D Material Study I

3 Credit(s)

Students will engage in advanced sculptural work using diverse materials. This course offers studio assignments that question and solidify artistic vocabulary and studio work. Curriculum includes regular seminar discussions and presentations based on assigned readings and local lectures. Contemporary issues and ideas in sculpture and material studies are a primary focus of these discussions. This course places a strong emphasis on establishing studio works and complete artist's portfolios. There is a specific course fee to cover the cost of some materials.

AR 455 - Advanced 3D Materials Study II

3 Credit(s)

Students are expected to propose individual projects and timelines to be completed within the semester. Curriculum includes regular seminar discussions and presentations based on assigned readings and local lectures. Contemporary issues and ideas in sculpture and material studies are a primary focus of these discussions. This course places a strong emphasis on establishing studio works and complete artist's portfolios. This course has a specific fee to cover the cost of some materials.

Prerequisite(s):

AR 454 Minimum Grade: C-

AR 462 - Advanced Printmaking I

3 Credit(s)

Emphasis on exploring the unique qualities of all printmaking processes and combining them as a means towards personal expression in the medium. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 360 Minimum Grade: C- OR T

AR 463 - Advanced Printmaking II

3 Credit(s)

Emphasis on exploring the unique qualities of all printmaking processes and combining them as a means towards personal expression in the medium. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 462 Minimum Grade: C- OR T

AR 479 - Topics in Art

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

AR 484 - Advanced Photography I

3 Credit(s)

Continued exploration of photography as an art medium with emphasis on expression and technique. Emphasis on development of a personal style and approach to the medium. Students will work with the instructor to determine techniques appropriate for their individual goals. Digital Techniques will be emphasized during the spring semester and traditional techniques in the fall semester. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 380 Minimum Grade: C- OR T

OR

AR 381 Minimum Grade: C- OR T

AR 485 - Advanced Photography II

3 Credit(s)

Continued exploration of photography as an art medium with emphasis on expression and technique. Emphasis on development of a personal style and approach to the medium. Students will work with the instructor to determine techniques appropriate for their individual goals. Digital Techniques will be emphasized during the spring semester and

traditional techniques in the fall semester. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 484 Minimum Grade: C- OR T

AR 492 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

AR 497 - BFA Exhibition

6 Credit(s)

A capstone course that involves the creation and exhibition of a cohesive body of creative work.

Prerequisite(s):

BFA Thesis Passed

Co-requisite(s): AR 498

AR 498 - Professional Practice

3 Credit(s)

Designed to be the capstone experience for all students who have majored in Art. Students will organize a group exhibition of their work and prepare portfolios and other tools for professional futures. Emphasis will be placed on responsible teamwork and professionalism.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

AR 499 - Individual Studies

1 to 9 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

AR 501 - Theory and Criticism

3 Credit(s)

Critical analysis of a selected issue applicable to the candidate's major discipline. Controversial historical or contemporary topics must be documented with written research supporting the candidate's chosen positions and submitted to their major advisors.

Prerequisite(s):

AR 503 Minimum Grade: C

AR 502 - Special Projects

3 Credit(s)

Exploratory research project applied to a technical process or problem supervised by the major advisor. Findings from research will be documented by the candidates and submitted to their major advisors.

Prerequisite(s):

AR 503 Minimum Grade: C

AR 503 - Research Methods for the Visual Arts

3 Credit(s)

An inter-disciplinary study of methods, analyses, and critiques used by visual artists to research issues within and across a range of topics in the visual arts.

AR 505 - Seminar in Art

A seminar class that combines research into art theory and art history with discussions about the conceptual aspects of studio work.

AR 508 - Drawing

3 Credit(s)

Experimentation with various drawing media with an emphasis on eventual development of individual expression. Course may be repeated for a maximum of 9 semester hours for Graduate students, 6 semester hours for Post-Baccalaureate students.

AR 518 - Professional Practice

3 Credit(s)

Students will organize a group exhibition of their work both on and off campus and prepare a portfolio and other tools for professional futures. Emphasis will be placed on responsible teamwork and professionalism.

AR 520 - Painting

3 Credit(s)

Study of painting problems with an emphasis on perceptual and conceptual awareness and personal development of technical abilities with painting media. Course may be repeated for a maximum of 15 semester hours.

AR 540 - Fiber

3 Credit(s)

An advanced level course that encompasses traditional and contemporary use of fiber and fiber techniques 2D and 3D

artworks. Emphasis on aesthetic, expressive, and conceptual use of materials and imagery. Course may be repeated to a maximum of 15 semester hours.

AR 550 - Sculpture

3 Credit(s)

A three-dimensional study of form and space with emphasis on creative imagination and investigation of contemporary ideas and materials. Course may be repeated for a maximum of 15 semester hours.

AR 560 - Printmaking

3 Credit(s)

Emphasis on individual concepts related to intaglio, relief, lithography, and stencil processes. Course may be repeated for a maximum of 15 semester hours.

AR 565 - Metalsmithing

3 Credit(s)

In-depth research and development of individual design concepts in metal manipulation, and stressing form and function. Course may be repeated for a maximum of 15 semester hours.

AR 570 - Ceramics

3 Credit(s)

Individual research in ceramic forms related to the development of the aesthetic and expressive qualities of clay. Course may be repeated for maximum of 15 semester hours.

AR 579 - Topics in Art

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

AR 585 - Photography

3 Credit(s)

Studies in the craft of photography with emphasis on development of individual expression. Course may be repeated for a maximum of 15 credit hours.

AR 592 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

AR 597 - Thesis Proposal

3 Credit(s)

The course includes preliminary work for the student's thesis body of work and supporting paper, including identification of artistic influences, historical influences and the conceptual framework for the body of work. Students will write a paper detailing these influences and making connections to the direction of their work.

Prerequisite(s):

AR 503 Minimum Grade: B-
AND

AR 505 Minimum Grade: B-

AR 598 - Thesis

6 Credit(s)

The thesis may be either written research or creative work in one of the major disciplines. Creative work must be accompanied by a descriptive paper and must be defended during the student's final semester. A graduate exhibition of a creative thesis will be required.

AR 599 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Chair.

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 101L - Introductory Biology Lab

0 Credit(s)

Introductory Biology is a one-semester laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101

BIOL 112 - Human Anatomy

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure of the human body. Typically taken by HPPE students. Topics include gross anatomy, histology, the relationship between structure and function, and anatomical changes associated with disease processes. Course includes three hours of lecture and two hours of laboratory per week.

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 179 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

BIOL 192 - Workshop

1 to 4 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

BIOL 199 - Individual Studies

1 to 5 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of department chair.

BIOL 205 - Human Anatomy and Physiology I

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The integumentary, skeletal, muscular, and nervous systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Test - Minimum Score: 3 **OR** MATH 97 Minimum Grade: S or S-C or T **OR** MATH

99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T and SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18 **OR** ENG 96 Minimum Grade: S or T

BIOL 206 - Human Anatomy and Physiology II

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The digestive, respiratory, circulatory, urinary, endocrine, and reproductive systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL 205 Minimum Grade: C- or T

OR

BIOL 210 Minimum Grade: C- or T

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General

Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- OR BIOL-209 Minimum Grade: T OR BIOL-209 Minimum Grade: C- AND (CHEM-131 Minimum Grade: C- OR CHEM-131 Minimum Grade: T) OR (CHEM-111 Minimum Grade: C- OR CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

BIOL 215 - Microbiology for Health Sciences

4 Credit(s)

A lecture/laboratory course designed to fulfill requirements for pre-nursing and pre-pharmacy students as a practical introduction to microorganisms, especially bacteria and viruses, and their contribution to human health and disease. Laboratory exercises are designed to provide experience in handling microorganisms, bacterial identification, and other basic principles of microbiology. This course will not fulfill requirements for any of the biology degree tracks. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL-205 Minimum Grade: C- OR T
AND

CHEM-105 Minimum Grade: C- OR T

AND

CHEM-105L Minimum Grade: C- OR T

OR

CHEM-111 Minimum Grade: T OR C-

AND

CHEM-111L Minimum Grade: T OR C-

OR

BIOL-209 Minimum Grade: C- OR T

AND

BIOL-210 Minimum Grade: C- OR T

BIOL 279 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

BIOL 292 - Workshop

1 to 4 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

BIOL 299 - Individual Studies

1 to 5 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

BIOL 314 - Conservation Biology

3 Credit(s)

Conservation biology is the study of how to preserve the world's biological and genetic diversity while maintaining functional ecosystems. The course will explore these issues using an integrated approach with emphasis on identifying ways that wildlife and humans can sustainably coexist.

Prerequisite(s):

BIOL 330 Minimum Grade: C- OR T
OR

GSCI 307 Minimum Grade: C- OR T

BIOL 321 - Genetics

3 Credit(s)

A study of Mendelian and molecular genetics of eukaryotes and prokaryotes. Discussions include basic Mendelian principles, meiosis/mitosis, linkage, gene expression, and molecular techniques. Course includes 3 hours of lecture and 1 hour of peer learning activities per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

OR

CHEM-132 Minimum Grade: C- OR T

AND

CHEM-132L Minimum Grade: C- OR T

BIOL 323 - Cellular Biology

3 Credit(s)

The study of higher plant and animal cells and tissues at the biochemical level including: organelle structure, function, and metabolic role; cell growth, differentiation and specialization; and a survey of instrumentation and methodologies for investigating life processes at the biochemical level. Course includes three hours of lecture per week. Concurrent registration in BIOL 321 and BIOL 325 is recommended.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T

OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

BIOL 325 - Cellular Biology/Genetics Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with BIOL 321 and BIOL 323. Laboratory exercises in this course are designed to demonstrate, complement, and extend concepts considered in BIOL 321 and BIOL 323.

Students will engage in exercises involving a variety of techniques in which data pertinent to both disciplines will be gathered and analyzed. Course includes 3 hours of laboratory per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

AND

CHEM 111L Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 131L Minimum Grade: C- OR T

Co-requisite(s): BIOL 321 BIOL 323

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T
AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

BIOL 332 - Evolution

3 Credit(s)

A study of the history and development of evolutionary theory. Consideration is given to evidence for and mechanisms of evolution from anatomical, developmental, geological, mathematical, and molecular perspectives. Credit or concurrent registration in BIOL 330 is recommended. This course includes 3 hours of lecture per week.

Prerequisite(s):

BIOL 209 Minimum Grade: C- OR T

AND

BIOL 210 Minimum Grade: C- OR T

BIOL 379 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

BIOL 380 - Natural History of World Regions

3 Credit(s)

This field course, offered during winter, spring, or summer break for declared science or mathematics major in good standing, explores the natural history of selected regions of the world. Emphasis will be placed on geology, flora, fauna, and ecology of the selected region. Examples of world regions to be studied include the Galapagos Islands and Eastern/Southern Africa. To register for this course, students must have completed two semesters of college-level science courses with a minimum grade of C-, or instructor permission.

BIOL 392 - Workshop

1 to 4 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

BIOL 399 - Individual Studies

1 to 5 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

BIOL 404 - Physiological Zoology

3 Credit(s)

Consideration of structural, functional, and behavioral aspects of physiological mechanisms within an ecological context. Adaptations of animals in response to common, changing, and/or extreme environmental stresses will be emphasized at both proximate and ultimate levels of inquiry. This course includes 3 hours of lecture per week and is offered during spring term of odd-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 407 - Comparative Animal Physiology

4 Credit(s)

A lecture and laboratory course in which physiological principles common to all major animal phyla are discussed. Consideration of function ranges from biochemical to organismal levels and the comparative method is emphasized in the examination of physiological adaptations required to live in a variety of environments. Course includes 3 hours of lecture and 3 hours of laboratory per week and is offered during fall term of even-numbered years. Biochemistry (CHEM-401 and 402) and senior standing are recommended.

Prerequisite(s):

BIOL-321 Minimum Grade: C- OR T
AND

BIOL-323 Minimum Grade: C- OR T

AND

BIOL-325 Minimum Grade: C- OR T

AND

BIOL-330 Minimum Grade: C- OR T

AND

BIOL-332 Minimum Grade: C- OR T

AND

CHEM-321 Minimum Grade: C- OR T

AND

CHEM-321L Minimum Grade: C- OR T

AND

CHEM-322 Minimum Grade: C- OR T

AND

CHEM-322L Minimum Grade: C- OR T

BIOL 408 - Developmental Biology

4 Credit(s)

A lecture and laboratory exploration of the principles of cellular differentiation, morphogenesis, and development with emphasis on underlying genetic mechanisms. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 411 - Comparative Anatomy

4 Credit(s)

An integrated lecture/laboratory investigation of the anatomy and functional morphology of the major groups of chordates and vertebrates with emphasis on the comparative method, anatomical changes through evolutionary history, and inferential reconstruction of phyletic evolutionary descent. Course includes 3 hours of lecture and 3 hours of laboratory per week and is offered during fall term of odd-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 417 - Vascular Plant Systematics

4 Credit(s)

A study of vascular plants (tracheophytes), including phylogeny, taxonomy, molecular systematics, reproduction, ecological relationships, identification, collection, and preservation. Course includes 3 hours of lecture and 3 hours of laboratory per week

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 420 - Mycology

4 Credit(s)

A study of the biology of fungi with emphasis on their identification, classification, morphology, development, ecology, and economic significance. Course includes three hours of lecture and three hours of laboratory per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 423 - Plant Physiology

4 Credit(s)

A study of the mechanisms of plant function throughout development from seeds through reproduction. This course includes consideration of metabolism (photosynthesis, respiration, mineral nutrition), water relations, gas exchange, and developmental growth in response to hormones. An integrated laboratory component requires an independently researched project. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 425 - Statistics for Biological Sciences

3 Credit(s)

This course provides an introduction to the statistical methods used in the biological sciences. Topics covered include descriptive statistics, probability distributions, hypothesis testing, regression analysis, and analysis of variance. Students will learn how to apply these methods to real-world biological data using the statistical software program R.

Prerequisite(s):

Completion of all Intermediate Block Biology courses (BIOL 321, BIOL 323, BIOL 325, BIOL 330, BIOL 332) with a minimum grade of C- or T.

AND

Completion of MATH 205 with a minimum grade of C- or T.

Co-requisite(s): MATH 205 with instructor permission.

BIOL 430 - Plant Ecology

4 Credit(s)

A study of the physiological mechanisms underlying plant responses to abiotic constraints. Topics will include the function of plants and plant communities in relation to soils, climate, other plants, animals, and human activity. Course includes 3 hours of lecture and 3 hours of laboratory/field exercises per week. BIOL 417 is recommended.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 440 - Invertebrate Zoology

4 Credit(s)

A survey of the major groups of invertebrate animals from the Protozoa through Chordata with emphasis on anatomy, ecology, evolution, physiology, and taxonomy. Relationships will be demonstrated through study of selected invertebrate types including marine, freshwater, and terrestrial species. Course includes 3 hours of lecture and 3 hours of laboratory per week and is offered during spring term of even-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 448 - Microbiology

4 Credit(s)

The study of bacteria, fungi, protozoans, and viruses with emphasis on their morphology, physiology, and medical and ecological interactions with human populations. Laboratory exercises are designed to provide experience in handling microorganisms, identification of bacteria, isolation of bacteriophages, and other basic principles of microbiology. Course includes 3 hours of lecture and 3 hours of laboratory per week. Chemistry 321/321L and CHEM-322/322L are recommended.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 450 - Immunology

3 Credit(s)

Introduction to the cellular and molecular participants in the immune response. Discussion of the relationship between immune mechanisms and medical problems such as allergy, AIDS, malignancy, infection, and organ transplantation. Course includes 3 hours of lecture per week. Course is offered during spring term of even numbered years.

Prerequisite(s):

BIOL 448 Minimum Grade: C- OR T

BIOL 451 - Endocrinology

3 Credit(s)

The study of the production, regulation, and function of classical hormones and paracrine regulatory molecules. Emphasis will be placed on human endocrinology, but the material will also include discussions of the evolution of hormone families and comparisons between species. Class activities will include histological study of endocrine tissue, videos of hormonal action, analysis of experiments in journal articles and discussions of medical case histories. Course includes 3 hours of lecture per week and is offered during the fall term of even-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 460 - Ornithology

3 Credit(s)

An integrated lecture and laboratory course covering the major taxonomic groups of birds, their ecology, evolutionary fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Lecture topics are supplemented with laboratory and field identification. Course includes three hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 461 - Entomology

3 Credit(s)

Biology of insects with emphasis on anatomy, physiology, natural history, evolution, life cycles, and identification of major groups. This course included two hours of lecture and two hours of lab per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 463 - Ichthyology

3 Credit(s)

An integrated lecture and laboratory course covering the major economic groups of fishes, their ecology, evolutionary relationships, fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Course includes three hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 464 - Mammalogy

3 Credit(s)

An integrated lecture and laboratory course covering the major taxonomic groups of mammals, their ecology, evolutionary relationships, fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Course includes 3 hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 466 - Environmental Toxicology

3.0 Credit(s)

This course provides an overview of the interdisciplinary field of environmental toxicology, including introductions to environmental chemistry, biological mechanisms of toxicity, regulatory structures for managing toxic exposures, and social dimensions of pollution. Impacts to both human and wildlife health will be discussed. Many of the concepts covered have direct relevance to pharmacology, medicine, and wildlife management. The format of the course is a mixture of lectures and discussion activities. Examples from the primary literature are used for discussion. The course culminates with an independent research project on an environmental toxicology topic of the student's choosing.

Prerequisite(s):

Completion of all Intermediate Block Biology courses (BIOL 321, BIOL 323, BIOL 325, BIOL 330, BIOL 332) with a minimum grade of C- or T.

BIOL 467 - Wildlife Management

3 Credit(s)

Study of the ecological foundation, historical development, techniques, and current perspectives and challenges in wildlife management. Emphasis will be on the application of scientific management of game and non-game animals, their habitats, and managing human use of wildlife. Course includes three hours of lecture per week and is offered during fall term of even-numbered years. MATH 205 is recommended.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T
AND

BIOL 325 Minimum Grade: C- OR T
AND

BIOL 330 Minimum Grade: C- OR T
AND

BIOL 332 Minimum Grade: C- OR T
OR

BIOL 330 Minimum Grade: C- OR T
AND

GSCI 212 Minimum Grade: C- OR T OR

BIOL 468 - Vegetation/Habitat Management

3 Credit(s)

A study of the composition, structure and productivity of vegetation with emphasis on ecological applications in creating and managing wildlife habitat.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T
AND

BIOL 325 Minimum Grade: C- OR T
AND

BIOL 330 Minimum Grade: C- OR T
AND

BIOL 332 Minimum Grade: C- OR T
OR

BIOL 330 Minimum Grade: C- OR T
AND

GEOG 212 Minimum Grade: C- OR T

BIOL 469 - Fisheries Management

3 Credit(s)

A study of the ecological foundation, historical development, techniques, and current perspectives and challenges in inland fisheries management. Emphasis will be on the application of scientific management of fishes, their habitats, and managing human use of inland fisheries. Fisheries Management does not include a separate laboratory section, but will include various field trips to give students the opportunity to observe and apply management techniques discussed in class.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T
AND

BIOL 325 Minimum Grade: C- OR T
AND

BIOL 330 Minimum Grade: C- OR T
AND

BIOL 332 Minimum Grade: C- OR T

BIOL 471 - Herpetology

3 Credit(s)

An integrated lecture and laboratory course covering the major taxonomic groups of amphibians and reptiles, their ecology, evolutionary relationships, fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Course includes three hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T
AND

BIOL 325 Minimum Grade: C- OR T
AND

BIOL 330 Minimum Grade: C- OR T
AND

BIOL 332 Minimum Grade: C- OR T

BIOL 476 - Molecular Biology

5 Credit(s)

An introduction to the study of nucleic acids, genomes and molecular mechanisms with emphasis on genome organization, gene expression, and the techniques used in the study of molecular biology. Laboratory exercises will include standard methodologies such as restriction mapping, cloning, hybridization, DNA libraries, and PCR. Course includes three hours of lecture and four hours of laboratory per week. Senior standing is recommended.

Prerequisite(s):

BIOL 448 Minimum Grade: C- OR T
OR

CHEM 401 Minimum Grade: C- OR T

BIOL 477 - Genomics and Bioinformatics

4 Credit(s)

This course is designed to provide students with an in-depth understanding of comparative and functional genomics and practice using genomics and bioinformatics tools. Topics discussed include structure and anatomy of DNA elements, sequencing and other methods used in decoding DNA, genes, and entire genomes, gene expression profiling, gene annotation, homology, clusters of ortholog genes, protein structure function, high throughput functional assays, and experimental perturbation of genomes for medical purposes. Examples presented in the course illustrate the role of functional genomics in drug design, gene discovery, and in designing individual therapies for a variety of diseases and disorders. Laboratory exercises will give students experience in handling and interpreting biological data using various

computational methods.

Prerequisite(s):

CHEM 401 Minimum Grade: C- OR T
AND

BIOL 476 Minimum Grade: C- OR T

BIOL 479 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

BIOL 492 - Workshop

1 to 4 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

BIOL 493 - Thesis I

1 Credit(s)

First in a series of two capstone courses for biology majors designed to review and synthesize their biological background. The emphasis is on writing an independent research paper, or formal literature review of a selected topic in biology. Emphasis is on writing as a process and effective peer review. Course includes 2 hours of lecture per week. A minimum of six credit hours of 400- level biology coursework with grades C or better, or permission of the biology department is required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 494 - Thesis II

1 Credit(s)

Second in a series of two capstone courses for biology designed to review and synthesize their biological background.

The emphasis is on developing oral presentation skills. Students will prepare and deliver several short oral presentations as well as one formal seminar on a biological topic. Course includes two hours of lecture per week.

Prerequisite(s):

BIOL 493 Minimum Grade: C- OR T

BIOL 499 - Individual Studies

1 to 5 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

BIOL 579 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

BIOL 592 - Workshop

1 to 4 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

BIOL 599 - Individual Studies

1 to 5 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Chair.

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 105 - Introduction to Agribusiness

3 Credit(s)

An introductory course designed to provide students with a basic background in agribusiness issues and practices to give them the foundation to be successful in upper level agribusiness courses and meet expectations for basic knowledge in agribusiness relationships.

BUS 114 - The Business of Life

3 Credit(s)

This course will guide you through methods for managing your money, budget and savings. This course is practical as opposed to theoretical in content. Students will learn how paychecks are calculated, how to create and use budgets, to purchase/lease a car/ how to rent or buy a home, how to choose insurance/investment broker, how to plan for major life events like marriage and retirement. Mastery of the course material will enable the students to more intelligently make financial decisions within their life.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 179 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

BUS 192 - Workshops

1 to 3 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

BUS 199 - Individual Studies

1 to 3 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related

to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 279 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

BUS 292 - Workshop

1 to 3 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

BUS 299 - Individual Studies

1 to 3 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

BUS 301 - Computerized Accounting

1 Credit(s)

Introduction to Computerized Accounting using a cloud based general ledger/subsidiary ledger system. Activities include establishing and maintaining the general ledger account, entering transactions and journal entries and producing reports.

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 305 - Intermediate Accounting I

4 Credit(s)

The first of a two-course sequence of Intermediate Accounting designed to develop a framework for the role financial accounting plays in the world of business. A study of the conceptual basis of accounting will be conducted, creating a more in-depth understanding of the preparation and interpretation of financial statements and related information. This course will focus on the study of modern-day accounting theory and application of generally accepted accounting principles to various topics and financial statement elements. Students will be introduced to the U.S. Accounting Standards Codification and basic research tools.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 306 - Intermediate Accounting II

4 Credit(s)

The second of a two-course sequence of Intermediate Accounting designed to develop a framework for the role financial accounting plays in the world of business. A study of the conceptual basis of accounting will be conducted, creating a more in-depth understanding of the preparation and interpretation of financial statements and related information. This course will focus on the study of modern-day accounting theory and application of generally accepted accounting principles to various topics and financial statement elements. Students will continue their use of the U.S. Accounting Standards Codification as a research tools.

Prerequisite(s):

BUS 305 Minimum Grade: C- OR T

BUS 307 - Managerial Cost Accounting I

3 Credit(s)

Principles and methods of recording and interpreting cost data. Major emphasis on developing accounting information for planning, control, and decision making.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 308 - Managerial Cost Accounting II

3 Credit(s)

Principles and methods of recording and interpreting cost data. Major emphasis on developing accounting information for planning, control, and decision making.

Prerequisite(s):

BUS 307 Minimum Grade: C- OR T

BUS 315 - Sales and Sales Management

3 Credit(s)

This course is designed to introduce students to management techniques as they relate specifically to the marketing and sales area. Topics covered include: the selling process, compensation systems, motivation and leadership, time and territory management, sales forecasting, quotas, and evaluating the sales force.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 316 - Public and Nonprofit Mgmt

3 Credit(s)

This course is designed to examine public and nonprofit management. This type of management is driven by mission and/or executive/legislative directions. It is not about the bottom line or profit. Students will learn both the theory and practice of public and nonprofit management, using the concept case method and service learning opportunities.

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 320 - Bus Computer Applications II

3 Credit(s)

The focus of this course is to explore application software on a comprehensive level to gain expertise to support decision-making and manage information. Study includes intermediate Word and Excel applications; intermediate to advanced PowerPoint; intermediate Access, integration of Office applications, and an introduction to HTML and building web pages.

Prerequisite(s):

BUS 120 Minimum Grade: C- OR T

BUS 335 - Consumer Behavior

3 Credit(s)

Study of consumer behavior as it relates to the marketing functions. Emphasis on the models of consumer behavior and their application to practical marketing problems.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 345 - Advertising

3 Credit(s)

Discusses the history, purposes, and regulations of the advertising industry. Topics covered include creative principles, media advantages and disadvantages, media planning, regulation of advertising, and coordination with other promotion activities.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 351 - Data Analysis

3 Credit(s)

This course introduces data manipulation and analytical techniques to identify insights, improve the ability to make predictions and prescribe future actions to make better business decisions. Excel Software will be used extensively.

Prerequisite(s):

BUS 120, BUS 318

OR

Permission of instructor

BUS 352 - Spreadsheet Modeling

3 Credit(s)

This course covers the fundamentals of spreadsheet modeling in Excel. The course includes spreadsheet modeling, graphical linear programming, linear programming in spreadsheets, time series forecasting, Monte Carlo simulation and decision analysis.

Prerequisite(s):

BUS 120, BUS 318

OR

Permission of instructor

BUS 355 - Individual Income Taxation

4 Credit(s)

This course involves the study of federal income tax on individual and property transactions. Objectives of taxation are given major emphasis. The Internal Revenue Code is discussed in addition to textbook material in order to acquaint the student with the ultimate source of tax law. Income tax return problems and tax cases may be assigned to provide practical application of the tax law.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 356 - Retailing

3 Credit(s)

Study of marketing and management problems faced in the operation of a retail business. Emphasis is given to techniques for solving problems in location, management, and merchandising, especially with the integration of Internet retailing (E-Tailing) as both a competitor and an extension of the storefront business.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 357 - Project Management

3 Credit(s)

This course covers the fundamentals of project management including project definition, project selection, project planning, estimating, scheduling, resource allocation and project control.

Prerequisite(s):

BUS 120, BUS 318, BUS 361, BUS 363

OR

Permission of instructor

BUS 358 - Accounting Ethics

3 Credit(s)

Ethics as it applies to the accounting and auditing professions and will be the focus of this course. Emphasis will be on the concept of independence, along with integrity, objectivity, ethical reasoning, and other core values necessary for a high level of professional ethics in the accounting profession.

Prerequisite(s):

BUS 306 Minimum Grade: C- OR T

BUS 360 - Government and Institution Accounting

3 Credit(s)

Study of accounting procedures related to governmental units and nonprofit institutions.

Prerequisite(s):

BUS 305 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 362 - Human Resource Management

3 Credit(s)

Analysis of techniques used to organize, motivate, and manage personnel in public or private organizations. Includes case studies and examines current literature and the current legal environment..

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 364 - Agribusiness Management

3 Credit(s)

Management issues of agricultural businesses such as the forms of ownership, financial statements, analysis, and planning, investment analysis, strategic marketing, management of organizations, and human resources management.

Prerequisite(s):

BUS 105 Minimum Grade: C- OR T

AND

BUS 207 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

BUS 367 - Financial Analysis

3 Credit(s)

Examination of techniques for analyzing, understanding, and applying financial information in decision situations. Topics start with financial statement analysis, development of financial models, financial forecasting, cost of capital estimation, and ends with company valuation. In addition, there will be a "hands on" project to provide students with experience in analyzing and understanding a corporate annual report using EXCEL spread sheet analysis.

Prerequisite(s):

BUS 320 Minimum Grade: C- OR T
AND

BUS 363 Minimum Grade: C- OR T

BUS 368 - Financial Institutions

3 Credit(s)

The course focuses on managing return and risk in modern financial institutions. It examines the financial services industry risk of financial intermediation, measurement of interest rate risk, credit and market risk, individual loan and liquidity risks, as well as off-balance sheet and sovereign risks. The course covers management of assets and liabilities, capital adequacy and depository insurance. Futures, forwards, options, caps, floors, collars, swaps and securitization will be also covered.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 369 - Hospitality/Customer Service

3 Credit(s)

This course focuses on careers in the hospitality industry include lodging, food and beverage, recreation, and travel and tourism. The curriculum provides an overview of the industry, customer relations, trends, employability skills, interpersonal skills, hotel and restaurant operations, and career operations.

BUS 371 - Payroll Accounting and Taxation

3 Credit(s)

This course is devoted to the principles of payroll computations and administration including creation and maintenance of payroll records as well as proper payroll tax depositing and reporting.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 373 - Investment Analysis

3 Credit(s)

BUS 318 recommended. The course is a study of personal investment planning, traditional and alternative investment vehicles, investment media, investment strategy, and portfolio analysis. The student will become familiar with both money market and capital investment markets as well as strategies for assessing returns and risks of various security instruments.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

BUS 377 - Agricultural Taxation

3 Credit(s)

This course is devoted to specific income tax laws associated with agricultural business to include farmers and ranchers both as individuals and as part of taxable entities.

Prerequisite(s):

BUS 355 Minimum Grade: C- OR T

BUS 378 - Commodities/Risk Management

3 Credit(s)

The goal of this course is to provide students with knowledge of risk management for agricultural endeavors as well as practical knowledge of how the futures and options markets work, how to manage risk involved in agriculture production or operation, and various tools available to manage specific situations. BUS 103 Introduction to Business or

instructor consent. BUS 105 Introduction to Agribusiness or instructor consent. BUS 318 Principles of Management or instructor consent.

Prerequisite(s):

BUS 103 Minimum Grade: D OR T
AND

BUS 105 Minimum Grade: D OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 379 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

BUS 381 - Business Internship

1 to 3 Credit(s)

Junior standing and approval of the department chair required. The internships are planned, meaningful work experiences that are academic in nature. Supervision consists of a site supervisor who is a qualified professional in the business or organization where the internship is arranged and a faculty sponsor who is a full-time professor in the School of Business, usually from the student's major. The site supervisor evaluates the work performed by the student on the job. The faculty sponsor is responsible for maintenance of academic quality and assigns the course grade. (30 contact hours=1 credit hour)

BUS 383 - International Financial Management

3 Credit(s)

A comprehensive study of international financial markets that covers currency exchange mechanisms in theory and practice. In line with the rapid globalization of the economy, the goal of this course is to analyze the international financial environment and how managers function in this increasingly uncertain global environment. The course will focus on three main areas of international finance: international financial environment, exchange rate behavior, and exchange risk management.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 384 - Natural Resources/Water Law

3 Credit(s)

The goal of this course is to provide students with knowledge of the regulatory responsibilities related to agriculture production and operations with respect to natural resources and water. The course will cover federal, state, and local requirements as well as application to agribusiness endeavors.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 211 Minimum Grade: C- OR T

BUS 385 - Sports Marketing

3 Credit(s)

Illustrates the dynamic, progressive and influential nature of sports marketing. Explores the sport marketing concept as a consumer-driven, integrated, goal-oriented philosophy for a team, event, organization or athlete. Topics covered include: athletic endorsements, team sports, event sponsorships and alternative sports.

BUS 392 - Workshops

0.330 to 3 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

BUS 394 - Women and Power: Gender, Business & Leadership

3 Credit(s)

The rise of women into powerful leadership roles in business, politics, and entrepreneurship is among one of the most profound social transformations in recent decades. This course examines contemporary issues relevant to women as leaders. Topics include recent research on women and applied leadership in the workplace; skills and strategies for negotiation, coalition-building and influencing the career path to leadership, and discussions by women from diverse personal and professional backgrounds with similar levels of career achievement.

BUS 398 - Farm and Ranch Management

3 Credit(s)

The application of economic and business principles to the management and operation of farms and ranches for decision making purposes.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 207 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

BUS 399 - Individual Studies

1 to 4 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

BUS 401 - Organizational Behavior

3 Credit(s)

Participants in the course will explore the theory of human relations in organizations. The emphasis will be on the application of behavioral science knowledge to contemporary organizational issues, which may include individual and group dynamics, motivation, leadership, organizational change, and development.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 405 - Advanced Accounting

4 Credit(s)

BUS-405 involves preparation and study of the need for consolidated financial statements. Additionally, it examines accounting problems associated with partnerships and foreign currency transactions.

Prerequisite(s):

BUS 306 Minimum Grade: C- OR T

BUS 407 - Auditing I

3 Credit(s)

Study of ethical standards, auditing standards, audit procedures, and evolution of internal control to learn how financial statements are examined and audit reports prepared in accordance with Generally Accepted Auditing Standards.

Prerequisite(s):

BUS 305 Minimum Grade: C- OR T

AND

BUS 306 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 409 - Fraud Examination

3 Credit(s)

This class will explain how occupational fraud is committed, how fraudulent conduct can be deterred and how

allegations of fraud should be investigated and resolved.

Prerequisite(s):

BUS 305 Minimum Grade: C- OR T

BUS 414 - Commercial Banking

3 Credit(s)

Bank Management is an in-depth study of banking institutions, with special emphasis on commercial banks and their connection to the Federal Reserve System and other financial institutions. A risk management perspective is adopted, and the fast changing global regulatory and financial environments are discussed. A Uniform Bank Performance Report will be analyzed.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 416 - Business Financial Problems

3 Credit(s)

Emphasis on financial decision-making within the firm using case studies as the primary activity. Topics include financial goals and strategy, financial analysis and forecasting, capital budgeting, capital structure decisions, dividend policy, and firm valuation.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 418 - Leadership Strategies

3 Credit(s)

This course presents contemporary theories and approaches to leadership practices in modern organizations. Students learn how effective leadership can assist in the creation of a strong organizational culture and the implications external forces have on individual leadership development and continued growth.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 419 - Organizational Change/Develop

3 Credit(s)

The study of planned and unplanned change in organizations to include diagnosis, planning, and implementation of organizational change initiatives. Emphasis is on teamwork within organizations and survey development.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 426 - Money and Capital Markets

3 Credit(s)

Discussion of how financial markets are organized, their role in the allocation of funds to various market segments, and the interaction between financial markets. Topics include aggregate flow of funds analysis, an overview of financial markets, securities markets (money, bond, mortgage, stock, foreign exchange, derivative securities), as well as commercial banks, insurance and securities companies, mutual and pension funds markets. This course also covers financial markets risks and regulations.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 427 - Financial Risk Management

3 Credit(s)

An introduction to financial risks including business risk, operational risk and legal risk. Topics include how to identify, measure, compute and manage financial risks. The focus will be on tools and methods for identifying sources of risk and risk factors for hedging, implementing market risk/value at risk (VaR) methods, economic capital and risk adjusted return on assets (RAROC), asset backed securities (ABSs) and collateralized debt obligations (CDOs).

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 428 - Portfolio Management

3 Credit(s)

An advanced understanding of key issues in the management of portfolios of securities. Specific items to be learned are capital asset pricing model, arbitrage pricing theory, pricing bonds and assessing their price volatility, managing bond portfolios, equity valuation models, efficient market theory, technical and fundamental analysis, active portfolio management, international investing, and investments in equity options and financial futures.

Prerequisite(s):

BUS 373 Minimum Grade: C- OR T

BUS 429 - Honor Seminar in Finance

3 Credit(s)

The course will provide an in-depth study and analysis of contemporary developments and topics of interest in finance. The topics and format will vary and may include financial management, financial institutions, financial markets, financial ethics, international finance and financial economics. The case method is the primary instructional tool.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T
AND

BUS 373 Minimum Grade: C- OR T

AND

BUS 416 Minimum Grade: C- OR T

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 431 - Tech Analysis of Stock Trends

3 Credit(s)

Advanced studies in technical market analysis and trading, money management, investor psychology and analysis elements are considered. The Focus will be on the study of price action in trading markets, patterns and trends, price behavior of financial securities, trading tactics, and construction of a trading or investment model. The course will help students prepare for the Chartered Market Technician (CMT) designation.

Prerequisite(s):

BUS 373 Minimum Grade: C- OR T

BUS 432 - Series 7 General Securities Exam Review

3 Credit(s)

The Series 7 License Exam Review course is designed to prepare the student to take the National Association of Securities Dealers General Securities Representative Exam. After passing the Series 7 License exam the candidate can be licensed to sell various types of securities.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T
AND

BUS 373 Minimum Grade: C- OR T

BUS 441 - International Marketing

3 Credit(s)

Analysis of opportunities, distinctive characteristics, and emerging trends in foreign markets, including exploration of alternative methods and strategies for entering foreign markets; organizational planning and control; impact of social, cultural, economic, and political differences; and problems of adapting American marketing concepts and methods. This is accomplished through real life planning and implementation of an international marketing plan designed to market a product or service in a foreign country or countries

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 448 - Interactive/Social Media Marketing

3 Credit(s)

This course focuses on relationship marketing, interactive marketing, integration of consumer data, Internet marketing (E-commerce), media advertising, catalogs, mailing lists, telemarketing, and the use of direct marketing techniques to replace or enhance the traditional marketing methods of retail and direct sales.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 449 - Marketing in the 21st Century

3 Credit(s)

This course provides the practical tools and strategies required to successfully leverage social networks, capitalize on their powerful word-of-mouth lift, and how to measure these interactive marketing efforts. These tools will be used on an actual social media marketing campaign for a business or non-profit entity. Current and future marketing tools will be discussed and evaluated.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

AND

BUS 448 Minimum Grade: C- OR T

BUS 451 - Statistical Quality Control

3 Credit(s)

Theory and methods used in statistical quality control. Emphasizes basic statistical analysis, variables control charts, attributes control charts, interpretation of control charts, estimation of process parameters, gage capability, acceptance sampling, and service quality.

Prerequisite(s):

BUS 120, BUS 318

OR

Permission of instructor

BUS 452 - Supply Chain Management

3 Credit(s)

Analysis and management of supply chain and logistics management. Topics include customer service, inventory management, information systems, transportation, warehousing, logistics relationships, performance measurement, and supply chain strategy.

Prerequisite(s):

BUS 120, BUS 318, BUS 361, BUS 363
OR

Permission of instructor

BUS 454 - Market Research & Information

3 Credit(s)

Study of the theory and methods used in marketing research to address marketing problems. May include the completion of a research project where students learn by performing a research project from problem formulation to writing a research report. Also prepares the students for evaluating research performed by others.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T
AND

BUS 318 Minimum Grade: C- OR T

BUS 455 - Entity Taxation

4 Credit(s)

Business 455 concentrates on the federal income tax consequences of the formation, normal operation, and the dissolution of corporations, partnerships, and fiduciaries. Other taxation problems of special interest may be covered.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 457 - Process Improvement Management

3 Credit(s)

This course introduces continuous improvement concepts via Six Sigma's DMAIC improvement cycle and improvement tools. Students will develop a working knowledge of how to apply these methodologies to improve processes.

Prerequisite(s):

BUS 318, BUS 451
OR

Permission of instructor

BUS 460 - Marketing Management

3 Credit(s)

Twelve hours of marketing courses and senior status required. Capstone course in marketing. Study of the problems faced by marketing managers as they make decisions and develop policies.

Prerequisite(s):

BUS 454 Minimum Grade: C- OR T

BUS 465 - Estate, Gift, and Fiduciary Tax Law

3 Credit(s)

This course will address the fundamentals of Estate, Gift, and Fiduciary tax law. Topics will include Federal Gift Tax, death transfer tax laws, and fundamentals and reporting returns for estates.

Prerequisite(s):

BUS 455 Minimum Grade: C- OR T

BUS 466 - Business Ethics Decision Making

3 Credit(s)

This course explores various ethical issues facing business leaders in modern society. Students will utilize current issues to analyze ethical dilemmas and decision-making processes common to modern organizations. Emphasizes critical thinking, critical reading, and the importance of professional ethics.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 467 - Creativity and Innovation

3 Credit(s)

Course objectives are to develop skills in generating new and original ideas, increase ability to convert ideas into action and success, and increase knowledge and skill in creative problem solving as applied to business scenarios.

Prerequisite(s):

BUS 361 Minimum Grade: C-

BUS 468 - New Business Venturing

3 Credit(s)

This course introduces students to starting and operating a business. Students will be exposed to how business interacts with government, financial institutions, and society. This course will examine and study the process, challenges, risks, and rewards of starting up a new business. The student will be equipped with tools required to start their own business.

Prerequisite(s):

BUS 365 Minimum Grade: C-

BUS 478 - Agricultural Marketing

3 Credit(s)

An overview of current marketing methods used for agricultural products and services, including value added marketing.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 479 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

BUS 481 - Business Internship II

1 to 3 Credit(s)

Senior standing and approval of the Department Chair required. The internships are planned, meaningful work experiences that are academic in nature. Supervision consists of a site supervisor who is a qualified professional in the business or organization where the internship is arranged and a faculty sponsor who is a full-time professor in the School of Business, usually from the student's major. The site supervisor evaluates the work performed by the student on the job. The faculty sponsor is responsible for maintenance of academic quality and assigns the course grade (30 contact hours=1 credit hour).

BUS 488 - Agricultural Policy and Farm Bill

3 Credit(s)

Development and implementation of public policy in agriculture, implications of international competition and trade, and development and interpretation of argument in policy development.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T
AND

BUS 318 Minimum Grade: C- OR T
AND

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

BUS 492 - Workshops

0.5 to 3 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

BUS 498 - World Food Distribution/Agricultural Economics

3 Credit(s)

Knowledge and application of economic concepts to the sectors of agriculture including microeconomic and macroeconomic relationships, world markets, and trade.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

BUS 499 - Individual Studies

1 to 5 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

BUS 500 - Leadership Skills for Managers

3 Credit(s)

This course teaches practical skills required for effective management at all levels of an organization, and is designed to increase a learner's understanding of key concepts and procedural guidelines related to organizational management, human resource, and leadership. The purpose is to be equipped to deal effectively with managerial challenges dealing with people.

BUS 505 - Creating Consumer Value

3 Credit(s)

This course presents learners with a comprehensive approach to creating consumer value. This includes marketing and brand management in for-profit firms as well as identifying and meeting consumer needs in non-profit and governmental organizations. Topics include segmentation and targeting of consumers; the positioning levers of product, price, promotion, and distribution; and brand management.

BUS 510 - Global Business Perspectives

3 Credit(s)

This course deals with management of organizations that operate, directly and indirectly, in more than one country. While the major focus will be the multi-national corporation, management of smaller firms, which only export, will also be considered. The primary emphasis will be on the special management problems, which are unique to multi-national operations.

BUS 513 - Methods of Teaching Business Education

3 Credit(s)

Topics include high school business curriculum, high school business student organizations, distributive education,

cooperative office education, vocation certification, business textbook catalogs, equipment and classroom techniques using learning styles and multimedia methods.

BUS 515 - Managerial Statistics

3 Credit(s)

This course introduces the concepts and skills involved in understanding and analyzing research in a variety of areas. The course provides an overview of basic, general knowledge of various research methodologies. This course also enhances students' abilities to locate, read, comprehend, and critically analyze research articles and reports.

BUS 520 - Managerial Accounting

3 Credit(s)

This course provides a review of financial reporting standards and statements and analysis of those financial statements. Managerial accounting principles will be explored as well as budgeting, cost allocation, accumulation, cost behavior, and relevant costs; revenues are approached from a managers' perspective. Prerequisite: undergraduate accounting course with a grade of C or higher.

BUS 525 - Financial Analysis

3 Credit(s)

Students will embark on studying basic financial principles and enhance that with understanding various valuation concepts and methods. Emphasis is also placed on capital budgeting and long term financing as well as working capital management. The course will blend time-tested finance principles and the latest advancements with the practical perspectives of the financial manager. Prerequisite: undergraduate accounting course with a grade of C or higher.

Prerequisite(s):

BUS 520 Minimum Grade: C

BUS 531 - Multinational Financial Management

3 Credit(s)

Multinational Financial Management course has two emphases: one on the basics and the other on a managerial perspective. As international capital markets of the world become more integrated, an understanding of international financial management has become important for U.S. corporate decision making. This course provides students with groundwork for analysis that will serve them well in their future careers. The decision-making process in this course will teach students how to make knowledgeable managerial decisions in an ever changing global financial setting.

Prerequisite(s):

BUS 525 Minimum Grade: B-

BUS 532 - Portfolio Management and Investment Analysis

3 Credit(s)

The unifying theme of this course is that security markets are almost efficient, meaning that most securities are priced appropriately given their risk and return attributes. The course is a blend of practical and theoretical coverage combines

with a complete digital solution to focus on making investment decisions from the perspective of the portfolio manager. This course also covers the Series 7 License and is designed to prepare the student for taking the National Association of Securities Dealers General Securities Representative Exam.

Prerequisite(s):

BUS 525 Minimum Grade: B-

BUS 533 - Financial Markets and Institutions

3 Credit(s)

This course is a great reflection of the latest developments from the field of financial markets. It helps students understand why financial markets exist, how financial institutions serve these markets, and what services those institutions offer. The course also focuses on the management, performance, and regulatory aspects of financial institutions and explores the functions of the Federal Reserve System, as well as the major debt and equity security markets, and derivative security market.

Prerequisite(s):

BUS 525 Minimum Grade: B-

BUS 534 - Finance Capstone

3 Credit(s)

This course uses a case study approach to solve complicated corporate problems and links managerial decisions to capital markets and the expectations of investors. Students will gain a deeper understanding of financial issues that they encounter in their professional career. At the core of the cases is a valuation task that requires students to look to financial markets for guidance in resolving the case problem. The focus on value helps the students understand the impact of the firm on the world around it.

Prerequisite(s):

BUS 525 Minimum Grade: B-
AND

BUS 531 Minimum Grade: B-

AND

BUS 532 Minimum Grade: B-

AND

BUS 533 Minimum Grade: B-

BUS 540 - Strategy

3 Credit(s)

In this course, learners examine tools and techniques for competitive analysis, strategic planning, and strategy implementation. Learners gain knowledge of the tools and concepts needed to develop a business strategy including macro environmental scanning, industry and competitive analysis, value chain analysis, SWOT analysis, identification of critical success factors and driving forces, and development of strategic alternatives and recommendations.

BUS 545 - Leading Entrepreneurial Organizations

3 Credit(s)

Successful organizations emphasize learning to sustain their competitive advantage. This course will study entrepreneurship and intrapreneurship. Areas of emphasis include uncovering the methodologies and characteristics that foster innovations and achieve meaningful change in business that leads to the creation and implementation of profitable business opportunities.

BUS 550 - Technology and Innovation

3 Credit(s)

This course adopts the perspective of a general manager-- an individual charged with diagnosing complex situations and resolving them in ways that enhance organizational performance. The course emphasizes how general management decisions may contribute to the creation and appropriation of economic value through innovation.

BUS 555 - Leading for Results

3 Credit(s)

This course focuses on how leaders mobilize others within their organization to get extraordinary things done. You will analyze what characteristics you need to develop to achieve your own professional goals and reflect on ways you can develop your competencies as a leader.

BUS 560 - Leadership Capstone

3 Credit(s)

This capstone course integrates knowledge gained in the previous graduate business courses. It centers on the theme that organizations achieve sustained success when their managers have astute, timely, strategic game plans, and they implement these plans with proficiency. This class incorporates the "big picture" and cuts across the whole spectrum of business and leadership.

BUS 564 - Accounting Ethics

3 Credit(s)

This course develops the ethical analysis beyond philosophy ethics courses and beyond business ethics courses. Students must have an undergraduate accounting degree, or consent of the instructor prior to registering for this course.

BUS 565 - Advanced Audit

3 Credit(s)

This course is designed to enhance students' understanding of the fundamental audit concepts, application of audit standards to cases, ethical issues faced by auditors, and analytical review procedures. Students must have an undergraduate accounting degree, or consent of the instructor prior to registering in this course.

Prerequisite(s):

BUS 407 Minimum Grade: C OR T

BUS 570 - Forensic/Investigative Accounting

3 Credit(s)

This course is to develop the core foundation of knowledge skills and abilities that are necessary to prepare students to be able to recognize the patterns and circumstances surrounding fraud and forensic accounting matters. Students must have an undergraduate accounting degree, or consent of the instructor prior to registering for this class.

BUS 575 - International Accounting

3 Credit(s)

This course is to familiarize students with the International Financial Accounting Standards. IFRS, including discussions regarding the differences in financial reporting, taxation, and other accounting practices that exist across countries. Students must have an undergraduate accounting degree, or consent of instructor prior to registering for this course.

BUS 579 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

BUS 580 - Public/Nonprofit Management

3 Credit(s)

This course is designed to examine public and nonprofit management. This type of management is driven by mission and/or executive/legislative direction. Students will learn both the theory and practice of public and nonprofit management, using the concept case method and service learning opportunities.

BUS 585 - Public Budgeting and Finance

3 Credit(s)

The course is designed to provide the student with an understanding of the primary financial management issues and decisions that confront senior management in the nonprofit and the public sectors. Students will gain an understanding and examine financial analysis techniques from both a practical and strategic perspective for operating and capital decisions.

BUS 590 - Policy Analysis

3 Credit(s)

This course introduces the study of public policy and analysis. It provides an overview of key policy areas and examines three aspects of public policy study: (a) government institutions and the policy making process, (b) the concepts and methods of policy analysis, and (c) the role of policy analysis in clarifying public problems and helping citizens and policymakers choose from among policy alternatives.

BUS 592 - Workshops

0.330 to 3 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

BUS 595 - Public Administration Capstone**3 Credit(s)**

The Capstone Course offers each student the opportunity to demonstrate mastery of the theory and practice of public administration by applying the knowledge and skills gained in the MBA-PA program. This involves completing a portfolio project reflecting the cumulative knowledge gained from these experiences.

BUS 599 - Individual Studies**1 to 3 Credit(s)**

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Chair.

CHEM 103 - Introduction to Forensic Chemistry GT-SC1**4 Credit(s)**

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

CHEM 103L - Introduction to Forensic Chemistry Lab GT-SC1**0 Credit(s)**

Required companion laboratory to CHEM 103.

Co-requisite(s): CHEM 103

CHEM 104 - Chemistry in Context GT-SC2**3 Credit(s)**

This course is designed to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and in significant issues facing science, technology, and society.

CHEM 105 - Introduction to General, Organic, and Biological Chemistry**4 Credit(s)**

A study of the fundamental concepts of general, organic, and biological chemistry. The course is satisfactory for pre-nursing students who take only one semester of chemistry. It will not satisfy the requirements for a chemistry major or chemistry minor. It is not suitable for the pre-professional programs such as pre-medical, pre-dental, pre-veterinarian, or for medical technology. Four lectures per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S or S-C or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 105L

CHEM 105L - Introduction to General, Organic, and Biological Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-105.

Co-requisite(s): [CHEM-105]

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 112 - Introduction to Organic/Biological Chemistry

4 Credit(s)

A study of the fundamental concepts of organic chemistry and biochemistry. Will not satisfy requirements for a chemistry major, minor or pre-professional studies (pre-med etc.) The course is satisfactory for biology majors who take only one year of chemistry, and for HPPE advanced track.

Prerequisite(s):

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 112L

CHEM 112L - Introduction to Organic/Biological Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 112.

Co-requisite(s): CHEM 112

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

CHEM 179 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

CHEM 192 - Workshop

1 to 4 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

CHEM 199 - Individual Studies

1 to 5 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

CHEM 279 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

CHEM 292 - Workshop

1 to 4 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

CHEM 299 - Individual Studies

1 to 5 Credit(s)

Provides opportunity for individual research/study into problems of special interests in the field. By faculty permission and approval of the department chair.

CHEM 321 - Organic Chemistry

4 Credit(s)

A study of the relationship between structure and reactivity of carbon-containing compounds.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 321L

CHEM 321L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 321. Laboratory time will be divided among techniques, preparation, and mechanistic studies.

Co-requisite(s): CHEM 321

CHEM 322 - Organic Chemistry

4 Credit(s)

A continuation of CHEM 321.

Prerequisite(s):

CHEM 321 Minimum Grade: C- OR T

Co-requisite(s): CHEM 322L

CHEM 322L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-322. Laboratory time will be divided among mechanistic studies, preparation, introductory qualitative analysis, and independent project work.

Co-requisite(s): CHEM-322

CHEM 331 - Analytical Chemistry

3 Credit(s)

The theory and application of classical and instrumental quantitative analysis with additional emphasis on the fate and analysis of chemicals in the environment.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T
AND

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): CHEM 331L

CHEM 331L - Analytical Chemistry Lab

2 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-331

Co-requisite(s): CHEM-331

CHEM 332 - Analytical Chemistry

3 Credit(s)

A continuation of CHEM 331 with additional coverage of chemical equilibria and electrochemistry.

Prerequisite(s):

CHEM 331 Minimum Grade: D OR T

Co-requisite(s): CHEM 332L

CHEM 332L - Analytical Chemistry Lab

2 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 332.

Co-requisite(s): CHEM 332

CHEM 334 - Environmental Chemistry

3 Credit(s)

This course is designed to introduce the student to a series of topics including stratospheric chemistry, air pollution, global warming, climate change, renewable energy, pesticides, water pollution, and heavy metal pollution.

Prerequisite(s):

CHEM 331 Minimum Grade: C- OR T

Co-requisite(s): CHEM 334L

CHEM 334L - Environmental Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 334.

Co-requisite(s): CHEM 334

CHEM 379 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

CHEM 392 - Workshop

1 to 4 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

CHEM 399 - Individual Studies

1 to 5 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

CHEM 401 - Biochemistry

3 Credit(s)

A study of structural biochemistry. Course begins with a review of water, the lipophilic environment, noncovalent bonding, and bioenergetics. Topics include amino acids, peptides, proteins, nucleic acids, carbohydrates, and lipids.

Enzymes are discussed with emphasis on mechanism and kinetics.

Prerequisite(s):

CHEM 322 Minimum Grade: C- OR T

Co-requisite(s): CHEM 401L

CHEM 401L - Biochemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-401. Laboratory time will be spent learning protein purification techniques and doing independent project work.

Co-requisite(s): CHEM-401

CHEM 402 - Biochemistry II

3 Credit(s)

A study of biochemical metabolism. Topics include catabolism, anabolism, and metabolic control. Three hours of lecture per week.

Prerequisite(s):

CHEM 401 Minimum Grade: C- OR T

CHEM 424 - Advanced Organic Chemistry

3 Credit(s)

A third semester course in organic chemistry, designed for students who wish to gain a better background in the subject. Topics include bioorganic chemistry, pericyclic reaction, and natural products synthesis. Offered in spring semesters upon sufficient demand. Three hours of lecture per week.

Prerequisite(s):

CHEM 322 Minimum Grade: C- OR T

CHEM 431 - Physical Chemistry Lecture/Thermodynamics

3 Credit(s)

Thermodynamics as applied to chemistry and physics. Specific topics include the laws of thermodynamics, thermochemistry, reaction and phase equilibrium, solutions, and electrochemistry. An introduction to chemical kinetics is included.

Prerequisite(s):

CHEM-132 Minimum Grade: C- OR T
AND

MATH-121 Minimum Grade: C- OR T

AND

PHYS-225 Minimum Grade: C- OR T

AND

PHYS-226 Minimum Grade: C- OR T

OR

PHYS-230 Minimum Grade: D OR T

AND

PHYS-231 Minimum Grade: D OR T

AND

PHYS-232 Minimum Grade: D OR T

AND

PHYS-233 Minimum Grade: D OR T

Co-requisite(s): CHEM 433

CHEM 432 - Physical Chemistry Lecture/Quantum Mechanics

3 Credit(s)

Quantum mechanics with applications to atomic structure, bonding, solid state, and spectroscopy. An introduction to kinetic molecular theory of gas, transport properties, and statistical mechanics is included.

Prerequisite(s):

CHEM-132 Minimum Grade: C- OR T

AND

MATH-121 Minimum Grade: C- OR T

AND

PHYS-225 Minimum Grade: C- OR T

AND

PHYS-226 Minimum Grade: C- OR T

OR

PHYS-230 Minimum Grade: D OR T

AND

PHYS-231 Minimum Grade: D OR T

AND

PHYS-232 Minimum Grade: D OR T

AND

PHYS-233 Minimum Grade: D OR T

CHEM 433 - Physical Chemistry Laboratory

2 Credit(s)

The principles of physical chemistry applied in the laboratory.

Prerequisite(s):

CHEM 431 Minimum Grade: D OR T

Co-requisite(s): CHEM 431

CHEM 434 - Physical Chemistry Laboratory

2 Credit(s)

The principles of physical chemistry applied in the laboratory. CHEM-434 includes an independent project.

Prerequisite(s):

CHEM 431 Minimum Grade: D OR T

Co-requisite(s): CHEM 432

CHEM 445 - Polymer Chemistry

3 Credit(s)

Introduction to the chemistry of organic, inorganic, and bio-polymers, with an emphasis on synthesis, mechanism, and reaction kinetics. Modern methods of polymer characterization are also covered. Offered upon sufficient demand.

Prerequisite(s):

CHEM-322 Minimum Grade: C- OR T

AND

CHEM-431 Minimum Grade: D OR T

CHEM 461 - Inorganic Chemistry

3 Credit(s)

Theoretical aspects of inorganic chemistry based upon periodic relationships, symmetry, structure bonding, and reactivities. Offered fall semesters of odd-numbered years.

Prerequisite(s):

CHEM-321 Minimum Grade: C- OR T

AND

CHEM-322 Minimum Grade: C- OR T

OR

CHEM-331 Minimum Grade: C- OR T

AND

CHEM-332 Minimum Grade: C- OR T

Co-requisite(s): CHEM-461L

CHEM 461L - Inorganic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-461. Practices of inorganic chemistry in the laboratory including synthesis and characterization of compounds.

Co-requisite(s): CHEM-461

CHEM 471 - Chemistry Seminar

1 Credit(s)

Capstone course intended for senior chemistry majors consisting of seminars presented by guest speakers, staff, and students; an assessment exam for seniors; and job placement information. Prerequisite: Completion of sufficient degree requirements to be within three semesters of graduating with a chemistry major.

CHEM 472 - Chemistry Seminar Continuation

1 Credit(s)

A continuation of CHEM 471.

Prerequisite(s):

CHEM 471 Minimum Grade: C- OR T

CHEM 479 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

CHEM 490 - Research in Chemistry

1 to 3 Credit(s)

Independent investigation in the field of chemistry offered to superior students upon arrangement with the instructor.

CHEM 492 - Workshop

1 to 4 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

CHEM 499 - Individual Studies**1 to 5 Credit(s)**

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

CHEM 579 - Special Topics**1 to 5 Credit(s)**

Offered periodically to meet student special interests in the field.

CHEM 590 - Research in Chemistry**1 to 3 Credit(s)**

Independent investigation in the field of chemistry offered to superior students upon arrangement with the instructor.

CHEM 592 - Workshop**1 to 4 Credit(s)**

Short courses offered on an intermittent basis to meet the needs of special constituents.

CHEM 599 - Individual Studies**1 to 5 Credit(s)**

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Chair.

CLD 401 - Introduction to the Study of Language**3 Credit(s)**

This course provides prospective teachers with an overview of the study of language and how it works. It is an introduction to the scientific study of language and linguistics. The course provides for examination of relevant theories of language and how language is acquired as well as cognitive, societal and cultural considerations affecting its use. Specific topics to be examined include: the structure of languages, grammatical constructs (e.g., morphology, syntax, semantics, phonetics, phonology, and discourse), the interactions between language use and social structures, and the representation of language in the brain. Instructional applications will be considered. The course presupposes no formal study or knowledge of language/ linguistics.

Prerequisite(s):

Clear Fingerprint background check

CLD 402 - Language and Culture

3 Credit(s)

This course explores the peculiar relationship between language and the cultural total of which the language is a part, including the connection between cultural identity and heritage language. It examines language variations within a community according to gender, age, geography, ethnicity, socioeconomic class and level of education. Specifically, the course deals with the linguistic factors characterizing differences in language and with the social and social-psychological variables associated with these differences. Attention is given to the different varieties of language within a speech community (e.g., dialect, register, and style) and the societal and cultural factors that define their use. Course content considers the educational, political and economic implications. The course presupposes no formal study or knowledge of language/ linguistics. Accordingly, the course focuses on the different ways people speak. It deals with the linguistic factors characterizing differences in language and with the social and social-psychological variables associated with these differences. Thus, having completed the course, students should (a) be aware of the different linguistic choices available to speakers in different social/ cultural contexts, (b) have an understanding of the factors which influence the choosing of one variety over another and the societal implications of such choices, (c) gain an appreciation for language diversity and cultural pluralism and, for those in teacher education programs, and, for education majors, (d) be able to demonstrate ability to identify and adapt instructional applications that are responsive to learners from different cultural backgrounds.

Prerequisite(s):

Clear Fingerprint background check

CLD 403 - Second Language Acquisition

3 Credit(s)

Introduction to second language acquisition (SLA) theory and the application of SLA theory to second/foreign language teaching practices. Explores what it means to know a language and, hence, how one learns/ acquires a second language. The emphasis in the course is to provide an opportunity to become familiar with up-to-date major theories of language acquisition (e.g., linguistic, psychological, sociological, etc.). That is, what happens in the mind of L1 learners and expand to 2L learners. This is not a methodology course, though certain methods and approaches will be discussed as they are direct applications of 2L theories. Instead, students will be exposed to what research data show about the complex process of learning a second language, and to teach them how to rely on these data to understand a number of major models (theories) of 2LL and, as a result, be able to use this knowledge to evaluate different methods, materials and assessments for 2LL/CLD populations. The course presupposes no formal study or knowledge of language/ linguistics. As part of the course content, we will seek to foster cultural sensitivity to the diverse student population becoming increasingly prevalent in classrooms in the U.S. We will also be concerned with providing the basic skills needed to satisfactorily assess the suitability of diverse 2LL methodologies & programs to meet the needs of limited English proficiency (LEP) students. An underlying assumption of the course is that learning is a social process that takes place within the broader social milieu of the learner's speech community. Accordingly, 2L learners bring into the classroom diverse language and cultural backgrounds, as well as a unique set of competencies, skills, sensitivities, goals, and needs. In order to provide for a successful learning environment, teachers must be able to identify and relate to the diversity inherent in today's student population and be able to take affirmative steps towards addressing the needs of the students in their classrooms. Course content and activities will assist participants in developing a greater appreciation of democracy and diversity in the classroom as we prepare for a global society as reflected in current theories of 2L acquisition.

Prerequisite(s):

Clear Fingerprint background check

CLD 404 - TESOL Methods

3 Credit(s)

This course introduces students to the study, philosophy, aims and methods of teaching English as a second (or foreign language) with an emphasis upon the techniques and materials in current use. It aims at providing for examination of current theory and empirical data on language learning, as well as for scrutinizing pertinent pedagogical implications/applications for the TESOL K-12/ CLD classroom intended to address the language needs of non-native speakers of English. In addition, the course reviews research-based instructional methodologies applicable to teaching language through the content areas. The course considers the large storehouse of information; currently available on how to successfully tap into this knowledge in order to develop and implement sound methodological approaches which will assist SL/ CLD learners in becoming proficient in the target language and successful in the academic content areas. Content addresses teachers' need to rely on effective instructional approaches and strategies that promote a climate that is conducive to opportunities for active involvement in learning about language, academic content, about classmates, and about the whole world. The course examines a synthesis of current 2L theory that should serve as the basis for development, selection, and modification of suitable materials and methods that will predictably be conducive to successful learning in both the language and content area classroom.

Prerequisite(s):

Clear Fingerprint background check

CLD 405 - TESOL Reading

3 Credit(s)

This course introduces students interested in questions of language acquisition to the theories and practices relating to learning to read in a second language or second dialect. Topics included are models for acquiring foreign language reading skills, teaching strategies for second language/dialect literacy, evaluating literacy skills, current research about acquisition of literacy skills, and political and social implications of second language/dialect literacy. The content addresses specifics about teaching reading for ELL/ CLD populations in classrooms. Opportunity is provided for candidates to become familiar with resources and data on school populations. The main goal of this course is to assist practicing or prospective teachers to learn how to promote development or crucial reading skills among ELL students. The course seeks to reexamine the pedagogical issues central to the 2L reading classroom, to be able to select suitable materials, to develop appropriate reading activities, to identify valid assessment measures, and to plan effective reading lessons suitable for instruction of ESL/CLD students.

Prerequisite(s):

Clear Fingerprint background check

CLD 406 - TESOL Writing

3 Credit(s)

This course introduces students interested in questions of language acquisition to the theories and practices of learning to write in a second language or second dialect. Topics included are 2L literacy development, writing theory, writing strategies, and 2L writers and rhetorical concerns. In addition, content examines teaching methodologies for second language/dialect literacy, assessment/evaluation of literacy skills, current research about acquisition of literacy skills, and political, cultural and social implications of ESL/ CLD literacy development. The main goal of this course is to assist practicing or prospective teachers to develop proficiency in promoting development of crucial 2L literacy/writing skills among English Language Learners (ELLs). Content is responsive to the need to reexamine pedagogical issues central to the 2L writing classroom, and also be able to select suitable materials, to develop appropriate activities that address both second language literacy and content area knowledge, to identify valid assessment measures, to integrate technology into classrooms and to plan effective writing lessons suitable to the 2L classroom. Lastly, as part of the course content, we will seek to foster cultural sensitivity to the diverse student population becoming increasingly prevalent in classrooms in the U.S. We will also be concerned with providing the basic skills needed to satisfactorily

assess the suitability of diverse 2LL methodologies & programs to meet the needs of limited English proficiency (LEP) students. An underlying assumption of the course is that learning is a social process that takes place within the broader social milieu of the learner's speech community. Accordingly, 2L learners bring into the classroom diverse language and cultural backgrounds, as well as a unique set of competencies, skills, sensitivities, goals, and needs. They may also bring with them different levels of L1 literacy skills. In order to provide for a successful learning environment, teachers must be able to identify and relate to the diversity inherent in today's student population and be able to take affirmative steps towards addressing the needs of the students in their classrooms. Course content and activities will assist participants in developing a greater appreciation of democracy and diversity in the classroom as we prepare for a global society as reflected in current theories of 2L development for academic purposes.

Prerequisite(s):

Teacher Education Background Check Passed

CLD 407 - TESOL Tests & Measurements

3 Credit(s)

This course examines language assessments in TESOL/ CLD. Course contents is intended to provide a practical and comprehensive overview of the different phases and activities involved in developing and implementing sound, rational, and effective language assessment instruments and activities. The course recognizes the relevance of context, purposiveness, and realistic discourse in testing. Specifically, the initial segment of the course will emphasize an integrated approach to educating English language learners (ELL) students, which encompasses social, cognitive, academic as well as linguistic dimensions and how to better assess the language instruction needs of ESL/CLD students. The course will focus on the practical applications of fundamental assessment principles, as well as development and evaluation of teacher-generated instruments for placement and diagnosis. Content discusses various principles for guiding either practicing and prospective teachers through an assessment process mindful of standards-based instruction (e.g., dictation, cloze summary, oral interview, role-plays, portfolio assessment techniques) for teaching ESL/ CLD students at various levels. Specific topics addressed include, 1. Innovative means of assessing reading ability, 2. Standards and performance outcomes, 3. Evaluating writing & reading, 4. Computers in assessment, as well as computer-based tests, 5. Interpretation of summative assessments of content knowledge, 6. Administration and interpretation of the results of summative assessments of English language proficiency, 7. Development, administration and interpretation of the results of formative assessments, 8. Theoretical and practical foundations of assessment for CLD populations, 9. Practices and approaches to testing that is responsive to varied measurement contexts, 10. Evaluation of reliability and validity of measures, and a variety of techniques available that.

Prerequisite(s):

Clear Fingerprint background check

CLD 408 - Bilingualism

3 Credit(s)

This course is a study of what it means to be a bilingual child or adult. It explores both the mind's role in bilingualism and in language acquisition as well as societal considerations. It surveys educational systems response to language variance among students and explores the social, academic and language learning consequences of growing up bilingual. Content seeks to familiarize students with various aspects of bilingual education and language contact from a social-psychological perspective. It aims at providing for analysis and evaluation of current theory and research on bilingualism, as well as for examination of pertinent pedagogical implications/applications. First, we are interested in both social and individual factors related to bilingualism. That is, how and why bilingualism originates both as an individual and a societal phenomenon, and the social-psychological consequences of the same. Accordingly, we will consider topics such as: language attitudes, language and nation, bilingualism and inter-group relations, speech style and social evaluation. Second, we will also consider some important aspects of language contact such as: linguistic borrowing; code switching; language maintenance and language shift; English as a language of wider communication;

language and context; diglossia; conversational interactions; language policy; language and culture. Third, we will also examine some significant aspects of the psychology of bilingualism. Specific topics to be covered are: cognitive and sociocultural consequences of bilingualism; neurolinguistic aspects of language acquisition and bilingualism; theoretical and research issues of bilingual education; performance of bilingual children on standardized tests; alternative approaches to testing and assessment of bilinguals; the teaching of English to non-native English speakers in the state of Colorado. NOTE: A supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

CLD 479 - Special Topics

0.5 to 6 Credit(s)

Offered periodically to meet the needs of students.

Prerequisite(s):

Clear Fingerprint background check

CLD 501 - Introduction to the Study of Language

3 Credit(s)

This course provides prospective teachers with an overview of the study of language and how it works. It is an introduction to the scientific study of language and linguistics. The course provides for examination of relevant theories of language and how language is acquired as well as cognitive, societal and cultural considerations affecting its use. Specific topics to be examined include: the structure of languages, grammatical constructs (e.g., morphology, syntax, semantics, phonetics, phonology, and discourse), the interactions between language use and social structures, and the representation of language in the brain. Instructional applications will be considered. The course presupposes no formal study or knowledge of language/ linguistics.

Prerequisite(s):

Admission to the Graduate School

CLD 502 - Language and Culture

3 Credit(s)

This course explores the peculiar relationship between language and the cultural total of which the language is a part, including the connection between cultural identity and heritage language. It examines language variations within a community according to gender, age, geography, ethnicity, socioeconomic class and level of education. Specifically, the course deals with the linguistic factors characterizing differences in language and with the social and social-psychological variables associated with these differences. Attention is given to the different varieties of language within a speech community (e.g., dialect, register, and style) and the societal and cultural factors that define their use.

Course content considers the educational, political and economic implications. The course presupposes no formal study or knowledge of language/ linguistics.

Accordingly, the course focuses on the different ways people speak. It deals with the linguistic factors characterizing differences in language and with the social and social-psychological variables associated with these differences. Thus, having completed the course, students should (a) be aware of the different linguistic choices available to speakers in different social/ cultural contexts, (b) have an understanding of the factors which influence the choosing of one variety over another and the societal implications of such choices, (c) gain an appreciation for language diversity and cultural pluralism and, for those in teacher education programs, and, for education majors, (d) be able to demonstrate ability to identify and adapt instructional applications that are responsive to learners from different cultural backgrounds.

Prerequisite(s):

Admission to the Graduate School

CLD 503 - Second Language Acquisition

3 Credit(s)

Introduction to second language acquisition (SLA) theory and the application of SLA theory to second/foreign language teaching practices. Explores what it means to know a language and, hence, how one learns/ acquires a second language. The emphasis in the course is to provide an opportunity to become familiar with up-to-date major theories of language acquisition (e.g., linguistic, psychological, sociological, etc.). That is, what happens in the mind of L1 learners and expand to 2L learners. This is not a methodology course, though certain methods and approaches will be discussed as they are direct applications of 2L theories. Instead, students will be exposed to what research data show about the complex process of learning a second language, and to teach them how to rely on these data to understand a number of major models (theories) of 2LL and, as a result, be able to use this knowledge to evaluate different methods, materials and assessments for 2LL/CLD Introduction to second language acquisition (SLA) theory and the application of SLA theory to second/foreign language teaching practices. Explores what it means to know a language and, hence, how one learns/ acquires a second language. The emphasis in the course is to provide an opportunity to become familiar with up-to-date major theories of language acquisition (e.g., linguistic, psychological, sociological, etc.). That is, what happens in the mind of L1 learners and expand to 2L learners. This is not a methodology course, though certain methods and approaches will be discussed as they are direct applications of 2L theories. Instead, students will be exposed to what research data show about the complex process of learning a second language, and to teach them how to rely on these data to understand a number of major models (theories) of 2LL and, as a result, be able to use this knowledge to evaluate different methods, materials and assessments for 2LL/CLD populations. The course presupposes no formal study or knowledge of language/ linguistics. As part of the course content, we will seek to foster cultural sensitivity to the diverse student population becoming increasingly prevalent in classrooms in the U.S. We will also be concerned with providing the basic skills needed to satisfactorily assess the suitability of diverse 2LL methodologies & programs to meet the needs of limited English proficiency (LEP) students. An underlying assumption of the course is that learning is a social process that takes place within the broader social milieu of the learner's speech community. Accordingly, 2L learners bring into the classroom diverse language and cultural backgrounds, as well as a unique set of competencies, skills, sensitivities, goals, and needs. In order to provide for a successful learning environment, teachers must be able to identify and relate to the diversity inherent in today's student population and be able to take 'affirmative steps' towards addressing the needs of the students in their classrooms. Course content and activities will assist participants in developing a greater 'appreciation of democracy and diversity' in the classroom as we prepare for a global society as reflected in current theories of 2L acquisition.

CLD 504 - TESOL Methods

3 Credit(s)

This course introduces students to the study, philosophy, aims and methods of teaching English as a second (or foreign language) with an emphasis upon the techniques and materials in current use. It aims at providing for examination of current theory and empirical data on language learning, as well as for scrutinizing pertinent pedagogical implications/applications for the TESOL K-12/ CLD classroom intended to address the language needs of non-native speakers of English. In addition, the course reviews research-based instructional methodologies applicable to teaching language through the content areas. The course considers the large 'storehouse of information' currently available on how to successfully tap into this knowledge in order to develop and implement sound methodological approaches which will assist SL/ CLD learners in becoming proficient in the target language and successful in the academic content areas. Content addresses teachers need to rely on effective instructional approaches and strategies that promote a climate that is conducive to opportunities for active involvement in learning about language, academic content, about classmates, and about the whole world. The course examines a synthesis of current 2L theory that should serve as the basis for development, selection, and modification of suitable materials and methods that will predictably be conducive to successful learning in both the language and content area classroom.

CLD 505 - TESOL Reading

3 Credit(s)

This course introduces students interested in questions of language acquisition to the theories and practices relating to learning to read in a second language or second dialect. Topics included are models for acquiring foreign language reading skills, teaching strategies for second language/dialect literacy, evaluating literacy skills, current research about acquisition of literacy skills, and political and social implications of second language/dialect literacy. The content addresses specifics about teaching reading for ELL/ CLD populations in classrooms. Opportunity is provided for candidates to become familiar with resources and data on school populations. The main goal of this course is to assist practicing or prospective teachers to learn how to promote development or crucial reading skills among ELL students. The course seeks to reexamine the pedagogical issues central to the 2L reading classroom, to be able to select suitable materials, to develop appropriate reading activities, to identify valid assessment measures, and to plan effective reading lessons suitable for instruction of ESL/CLD students.

CLD 506 - TESOL Writing

3 Credit(s)

This course introduces students interested in questions of language acquisition to the theories and practices of learning to write in a second language or second dialect. Topics included are 2L literacy development, writing theory, writing strategies, and 2L writers and rhetorical concerns. In addition, content examines teaching methodologies for second language/dialect literacy, assessment/evaluation of literacy skills, current research about acquisition of literacy skills, and political, cultural and social implications of ESL/ CLD literacy development. The main goal of this course is to assist practicing or prospective teachers to develop proficiency in promoting development of crucial 2L literacy/ writing skills among English Language Learners (ELLs). Content is responsive to the need to reexamine pedagogical issues central to the 2L writing classroom, and also be able to select suitable materials, to develop appropriate activities that address both second language literacy and content area knowledge, to identify valid assessment measures, to integrate technology into classrooms and to plan effective writing lessons suitable to the 2L classroom. Lastly, as part of the course content, we will seek to foster cultural sensitivity to the diverse student population becoming increasingly prevalent in classrooms in the U.S. We will also be concerned with providing the basic skills needed to satisfactorily assess the suitability of diverse 2LL methodologies & programs to meet the needs of limited English proficiency (LEP) students. An underlying assumption of the course is that learning is a social process that takes place within the broader social milieu of the learner's speech community. Accordingly, 2L learners bring into the classroom diverse language and cultural backgrounds, as well as a unique set of competencies, skills, sensitivities, goals, and needs. They may also bring with them different levels of L1 literacy skills. In order to provide for a successful learning environment, teachers must be able to identify and relate to the diversity inherent in today's student population and be able to take 'affirmative steps' towards addressing the needs of the students in their classrooms. Course content and activities will assist

participants in developing a greater 'appreciation of democracy and diversity' in the classroom as we prepare for a global society as reflected in current theories of 2L development for academic purposes.

CLD 507 - TESOL Tests and Measurement

3 Credit(s)

This course examines language assessments in TESOL/ CLD. Course contents is intended to provide a practical and comprehensive overview of the different phases and activities involved in developing and implementing sound, rational, and effective language assessment instruments and activities. The course recognizes the relevance of context, purposiveness, and realistic discourse in testing. Specifically, the initial segment of the course will emphasize an integrated approach to educating English language learners (ELL) students, which encompasses social, cognitive, academic as well as linguistic dimensions and how to better assess the language instruction needs of ESL/CLD students. The course will focus on the practical applications of fundamental assessment principles, as well as development and evaluation of teacher-generated instruments for placement and diagnosis. Content discusses various principles for guiding either practicing and prospective teachers through an assessment process mindful of standards-based instruction (e.g., dictation, cloze summary, oral interview, role-plays, portfolio assessment techniques) for teaching ESL/ CLD students at various levels.

CLD 508 - Bilingualism

3 Credit(s)

This course is a study of what it means to be a bilingual child or adult. It explores both the mind's role in bilingualism and in language acquisition as well as societal considerations. It surveys educational systems response to language variance among students and explores the social, academic and language learning consequences of growing up bilingual. Content seeks to familiarize students with various aspects of bilingual education and language contact from a social-psychological perspective. It aims at providing for analysis and evaluation of current theory and research on bilingualism, as well as for examination of pertinent pedagogical implications/applications. First, we are interested in both social and individual factors related to bilingualism. That is, how and why bilingualism originates both as an individual and a societal phenomenon, and the social-psychological consequences of the same. Accordingly, we will consider topics such as: language attitudes, language and nation, bilingualism and inter-group relations, speech style and social evaluation. Second, we will also consider some important aspects of language contact such as: linguistic borrowing; code switching; language maintenance and language shift; English as a language of wider communication; language and context; diglossia; conversational interactions; language policy; language and culture. Third, we will also examine some significant aspects of the psychology of bilingualism. Specific topics to be covered are: cognitive and sociocultural consequences of bilingualism; neurolinguistic aspects of language acquisition and bilingualism; theoretical and research issues of bilingual education; performance of bilingual children on standardized tests; alternative approaches to testing and assessment of bilinguals; the teaching of English to non-native English speakers in the State of Colorado.

CLD 509 - TESOL Practicum/Capstone

3 Credit(s)

This course explores fundamental instructional considerations in TESOL by providing a school-based practical experience. This is an eight (8) week course under the direction of an experienced teacher/mentor and a university supervisor that provides classroom experience in an additional area of teaching certification for those who already hold certification in one area. Interns will observe teaching, participate in work with students (K-12), participate in planning sessions, teach and participate in all activities for which regularly employed teachers are responsible. This course is the culminating experience for the MA in Education with CLD Endorsement. A copy of the final summative teaching evaluation is placed in the candidates file in the Teacher Education Department. All candidates are expected to

demonstrate the basic skills relative to all teaching skills, such as lesson planning, unit planning, classroom management, effective instructional approaches, appropriate selection of materials, and knowledge of the teaching-learning process prior to being recommended for TESOL K-12 certification. Instruction should demonstrate alignment with the Colorado CLD Competencies. Candidates are required to teach at least six (6) lessons at an appropriate level (i.e., K-6, 7-12). As part of the evidence of competence to provide effective instruction in English as a Second Language/ CLD, class participants are required to generate a Professional Portfolio aligned of the Colorado CLD Competencies, aligned with the five TESOL/CAPE domain areas and to successfully pass a TESOL Portfolio Exit Interview.

CLD 579 - Special Topics in CLD

3 Credit(s)

This is a tutorial course that entails an examination of selected topics of education as they relate directly to first and second language learning, pedagogy, bilingualism, multicultural education and assessment. The course may focus on different semesters on such topics as phonology and language learning, psycholinguistics and bilingualism, or teaching English in the content area classroom. This course may be repeated for credit once under different course subtitle. Prerequisite: consent of instructor. Course content is aligned with Colorado Culturally and Linguistically Diverse Competencies (CLD) and TESOL Teacher Preparation Standards. Students wishing to take a topics course must have a subject of study in mind which they wish to pursue; subjects or topics will not be furnished for them. Each student must have permission from the Chairman of the Teacher Education Department. Each student must design a program of study meeting the supervisory faculty member's approval. The CLD-579 - Topics in CLD or TESOL form must be filled out in triplicate (one for the student, one for the faculty member, one for the English Department Chairman) and approved prior to enrollment in CLD-579. Student enrollment without such approval will be cancelled. A student enrolled in CLD-579 will have one bi-weekly conference throughout the semester with the supervising faculty member (may take place via online).

COMM 100 - Public Speaking

3 Credit(s)

Students will learn the theories behind and the techniques of public speaking. Students will compose, videotape, and upload speeches on various topics and various styles for peer and instructor critique. Students will also learn about the various models of public speaking and the fundamentals of communication theory.

COMM 165 - Digital Filmmaking

3 Credit(s)

Course covers the aesthetics and practice of narrative, documentary, and experimental media production at an introductory level using a variety of digital filmmaking tools including digital photography, digital video, audio recorders, and editing software. Students will complete video products they can post to YouTube and similar sites.

COMM 179 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

COMM 190 - Radio Practicum

1 to 3 Credit(s)

Students earn one credit hour for every three hours of work weekly on KASF-FM or its web site. See station manager for details.

COMM 195 - Video Practicum

1 to 3 Credit(s)

Students earn one credit per three videos (or equivalent work) that they produce for the student-run Grizzly Video Productions (YouTube channel and Campus Cable Channel 5). Please see the Grizzly Video Productions faculty adviser or the student GVP General Manager for further details.

COMM 197 - Newspaper Practicum

1 to 3 Credit(s)

Students earn one credit per five stories (of 500 words apiece, or pre-approved substitutions) that they write for the Paw Print. Students should write on a variety of topics. Also required is the attendance of three newspaper staff meetings per credit registered. Please see the newspaper faculty advisor or the student editor for further details.

COMM 230 - Media Writing

3 Credit(s)

Students will survey the fundamental types of media writing, including inverted pyramid news writing, feature writing, blogging, and screenplays. News literacy will also be covered.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

COMM 275 - News Writing and Criticism

3 Credit(s)

Inverted pyramid print writing and basic broadcast writing are covered in this course. Additionally, students critique, discuss, and analyze current print and broadcasting media conventions, ethics, and procedures.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

COMM 279 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

COMM 280 - Visual Literacy

3 Credit(s)

This course will decode the messages behind visual communication by covering concepts of photography, television, film, digital imagery, social media, video games, etc. Students will interrogate visual meaning, and even create visual messages using standard industry practices.

Prerequisite(s):

ENG 102 Minimum Grade: C-

COMM 285 - Digital Media Production

3 Credit(s)

Teaches skills needed to produce effective digital media in print, audio, and video formats. Students are encouraged to take this course concurrently with newspaper, radio, and/or video practicum.

COMM 293 - Media Practicum

3 Credit(s)

Students will work hands-on to learn various media industry-related skills. Students will deejay for Grizz Sound, and/or create podcasts, write for The Paw Print, and create a short video piece.

Prerequisite(s):

COMM 230 Minimum Grade: C- OR T

COMM 327 - Social Media

3 Credit(s)

Surveys the history of the early Internet and the transition to Web 2.0. Students will apply this knowledge by designing, creating, and developing social media presence for non-profits, local municipalities, etc., and training the recipients on how to maintain their social media presence

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

COMM 340 - Citizen Journalism and Freelance Writing

3 Credit(s)

This course focuses on the writing skills and theory behind being a freelance or citizen journalist, including feature writing and literary journalism, blogging, and video.

Prerequisite(s):

COMM 293 Minimum Grade: C- OR T

COMM 345 - Business of Radio and TV**3 Credit(s)**

This course is designed for majors of Communication & Media, Media Industry & Communication, Public Relations, and other majors who are interested in careers in the radio and television industries. Students will study in-depth as to how the radio and television industries operate.

COMM 350 - Media Theory and Criticism**3 Credit(s)**

Students will explore various theories that explain the nature of mass communication, the impact that media have on society, and the trends in media consumption. Particular emphasis will be placed on propaganda, violence in media, information processing, media monopolies, and critical media consumption. Students will be expected to track current media and debate contemporary media controversies in class.

Prerequisite(s):

COMM 255 Minimum Grade: C- OR T

COMM 355 - Public Relations and Strategic Communication**3 Credit(s)**

Students will study the theoretical and practical elements of the field of public relations and the use of strategic communication. Student will then compose public relations materials applying the elements studied.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

COMM 360 - Media Management**3 Credit(s)**

Students learn how various media organizations are managed and operated, with a specific focus on radio and television. Various management structures are also explored.

Prerequisite(s):

COMM 293 Minimum Grade: C- OR T

COMM 365 - Digital Filmmaking**3 Credit(s)**

This course covers the aesthetics and practice of narrative, documentary, and experimental media production using a variety of digital filmmaking tools including digital photography, digital video, audio recorders, and editing software. Students will complete video products they can post to YouTube and similar sites.

Prerequisite(s):

COMM 230 Minimum Grade: C- OR T

COMM 367 - Short Film/Movie Trailer Production

3 Credit(s)

This course is an intensive production workshop on the sort film and the structure of the commercial movie trailer. Students work in small groups to create an original narrative short film and work individually to create a movie trailer from existing material. Students will share their works in progress with the class and screen their final work through ASU media outlets such as the Grizzly Video YouTube and GRZ-TV campus cable channel 5.

Prerequisite(s):

COMM 165 Minimum Grade: C- OR T
AND

COMM 285 Minimum Grade: C- OR T

COMM 368 - Documentary Film Production

3 Credit(s)

Production course introduces students to the documentary, a form of non-fiction filmmaking. Students will create short documentaries in visual media, utilizing narration, video, still photos, and other elements to tell a story for general audiences.

Prerequisite(s):

COMM 165 Minimum Grade: C- OR T
AND

COMM 285 Minimum Grade: C- OR T

COMM 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student interests in the field.

COMM 380 - Spanish Media

3 Credit(s)

Students will examine the issues facing Spanish-speaking media in the United States, as well as its business model and the skills needed to enter the field. Bilingual recommended but not required.

Prerequisite(s):

COMM 345 Minimum Grade: C- OR T

COMM 399 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

COMM 420 - Rhetoric of Popular Culture

3 Credit(s)

This course takes seriously the idea human discourse is inherently persuasive. Further, it takes seriously the idea that popular culture is still human culture, and therefore worthy of analysis to understand how it influences human relationships and political struggle. Students will examine the messages and persuasive discourse found in everyday "texts" in film, television, the Internet, music, technology, celebrity, fashion, and other modes of cultural consumption.

COMM 425 - Media Research Methods

3 Credit(s)

Students will examine the prominent methods of media research, including quantitative and qualitative research, reliability and validity, specific methods used in the industry, the Nielsen ratings, and market trends.

Prerequisite(s):

ENG 102 Minimum Grade: C-

COMM 430 - Diversity in Media

3 Credit(s)

Students will analyze how US media represents traditionally marginalized people in the United States. The course will be primarily discussion based, with students and instructor working together to generate ideas and critique dominant ideologies.

Prerequisite(s):

COMM 350 Minimum Grade: C- OR T

COMM 457 - First Amendment and Copyright

3 Credit(s)

This course explores the First Amendment of the U.S. Constitution and current U.S. copyright laws, and how they apply to and affect both media practitioners and U.S. citizens.

Prerequisite(s):

COMM 255 Minimum Grade: C- OR T

AND

COMM 275 Minimum Grade: C- OR T

COMM 479 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

COMM 495 - Communication Capstone

3 Credit(s)

This course is designed to be the academic capstone experience for all students who are majoring in Communication & Media or Public Relations and to prepare students for a career in the media industry and/or for graduate studies in the field. Subject matter will vary depending upon the instructor's specialization or area of interest. All capstone students will conduct a major research project that reflects the student's mastery of library usage, research methodology, breadth of knowledge, critical thinking, and writing ability.

COMM 496 - Communication Internship

1 to 3 Credit(s)

Advanced communication students will work in a pre-employment capacity in the field of communications/journalism (broadcasting, video, print, satellite, or computing), applying learned skills in a working environment.

COMM 499 - Individual Studies

1 to 13 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

COMM 579 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

COUN 312 - Introduction to Counseling

3 Credit(s)

This course provides an introduction to the profession of counseling and the importance of interpersonal communication skills and self-awareness across a variety of disciplines. Topics include an introduction to different counseling approaches, such as individual, family, and group counseling.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

OR

PSYC 205 Minimum Grade: C- OR T

COUN 392 - Workshops

0.5 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

COUN 399 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

COUN 411 - Transpersonal Psychology

3 Credit(s)

This course will attempt to tap into this reservoir, to journey into the depth of consciousness of the human being. Essentially, transpersonal psychology is an approach to psychology, psychotherapy, and personal growth which integrates psychology and spirituality. The focus of transpersonal psychology goes beyond behaviorism, psychoanalysis, cognitive psychology, and humanistic psychology. Transpersonal psychology is concerned with the study of humanity's highest potential, and with the recognition, understanding, and realization of unitive, spiritual, and transcendent states of consciousness.

COUN 503 - Introduction to Research

3 Credit(s)

An introductory course to help students develop an understanding of the importance of research; overview basic elements of quantitative, qualitative, and action research ;methods, enhance skills to evaluate and critique research and literature; and gain an appreciation for conducting research.

COUN 504 - Core Concepts of Trauma in Children and Adolescents

3 Credit(s)

This course provides a conceptual framework that forms the foundation for planning effective trauma interventions. The course accelerates student's understanding and skill development by combining the twelve core concepts for understanding the impact of trauma on children and adolescents with using problem-based learning (PBL) principles and guided small group discussion of three in-depth case studies that further assessment, diagnostic, case formulation, and clinical judgment skills. The National Child Traumatic Stress Network developed both the case studies and the Core Concepts. The course highlights the role of development, culture and empirical evidence in trauma-specific interventions with children, adolescents and their families. It addresses the level of functioning of primary care giving environments and assessment of the capacity of the community to facilitate restorative processes. The three case studies promote student's learning about how: (1) exposure to both acute and chronic cumulative trauma varies by age, gender, race, and stage of development, and (2) trauma-specific interventions with children, adolescents, adults and families begin with knowledge of the protective and/or risk factors found in families and communities. The course offers a consistent systematic approach to using theoretically based core trauma concepts that enhance preparation to provide effective treatment.

COUN 505 - Narrative Therapy

3 Credit(s)

This course presents the theoretical foundation and techniques of Narrative therapy. Students will understand the historical foundations of Narrative counseling, learn how to utilize Narrative theory to conceptualize client concerns, and apply Narrative interventions in counseling. Students will also use Narrative theory to explore their own counseling identities.

COUN 507 - Private Practice

3 Credit(s)

This course will teach students how to build a private practice and will dive deeper into topics about marketing, insurance, electronic health record systems, billing, using social media and technology, HIPAA, and so much more!

COUN 508 - School Law for Counselors

3 Credit(s)

This course will examine the range of topics associated with counseling in the public and private schools. Topics include laws and cases related to the governance and role of federal and state governments with regard to confidentiality, topics and activities pertaining to the implementation of comprehensive guidance and counseling programs, parent and student rights, discrimination and rights of the disabled, student discipline issues, and other topics influencing the profession of school counseling. Liability, common law, statutory law, and current cases and trends will be investigated.

COUN 509 - Overcoming Childhood Trauma

3 Credit(s)

This course helps students examine and define Childhood Trauma and its effect on neural, physical, and psychological development. Students will explore different treatment approaches and simulate techniques as they relate and correspond to different trauma-inducing childhood experiences. Students will evaluate methods comparing each against the others and choose appropriate approaches for use by applying in a hypothetical counseling situation. Students will identify unhealthy trauma-responses among providers, organizations, and systems providing a plan to assuage and replace dysfunctional patterns of behavior.

COUN 510 - Counseling the LGBTQIA+ Community

3 Credit(s)

This course is designed to focus on unique challenges facing LGBTQIA+ identified individuals as well as their families. Students will learn about historical and current events in the LGBTQIA+ community, as well as important definitions of terms and constructs.

Students will explore the oppression and societal prejudice experienced by LGBTQIA+ identified individuals. There are considerations of other multicultural issues that influence the diversity within the LGBTQIA+ community. This course will examine the theoretical underpinnings of LGBTQIA+ identity development. Students will understand LGBTQIA+ resiliency factors and explore how the above challenges impact an LGBTQIA+ individual's way of functioning in society. Students will reflect on their personal beliefs about the LGBTQIA+ community and how this influences their counseling practices. Lastly, students will develop strategies to create an affirming and ethical counseling practice.

COUN 515 - Multicultural and Diversity Issues

3 Credit(s)

This course is designed to assist students in understanding the impact of social/cultural forces upon identity development and formation. Students will explore various components of our pluralistic society and how oppressive systems can exclude and harm individuals. Change theory and advocacy principles will be introduced to aid students in dealing with these issues in their communities and with clients.

COUN 517 - Life Span Development

3 Credit(s)

This course is designed to provide an understanding of major influences of human development. Presentation of various developmental theories enable the student to understand the stages of the developmental process that include conception, childhood, adolescence, adulthood, aging process, and death and dying. Students will develop an appreciation and awareness of the complexity of human growth and development.

COUN 518 - What's love got to do with it?

3 Credit(s)

This course offers insight into a topic that many are extremely interested in: the exploration of love. Students will explore the nature of the interpersonal relationship from falling in love, parent-child love and attachment, counselor-client relationship, sex and eroticism, neuroscience and the effect of love on the brain, the creation of meaningful relationships, friendship, love of God and nature, the human-animal bond, and the love of possessions. This course will discuss the heartache of love, including grief and loss, and will identify when interpersonal relationships are not healthy. Self-love will be explored as a foundation for all love and affection. The psychological approach to love and relationships from different perspectives - primarily evolutionary, attachment theory; as well as focus on some ethical issues related to these areas within the counseling profession.

COUN 524 - Counseling Theories and Helping Relationships

3 Credit(s)

This course presents the major schools of thought influencing the practice of counseling. The relationship of philosophy, theory, and practice will be a primary focus. Students will understand the historical foundations of counseling and the beginnings of their own personal foundation of counseling.

COUN 527 - Group Counseling

3 Credit(s)

This course explores leadership styles, group dynamics, and group process necessary to run successful groups. The major group counseling theories will be explored, and group skills will be practiced. The course requires that students gain experience as both a growth group participant and as a co-leader.

Co-requisite(s): COUN 527L

COUN 527L - Group Counseling Lab

0 Credit(s)

Students are required to take COUN-527L Group Counseling Lab along with their COUN 527 course. The COUN-527L to engage in personal and professional growth as a group counselor in training while demonstrating self-awareness and professional behaviors required of counselors in training specifically in leading and engaging in Group activities. Students will experience the group process as both a group member and group leader while receiving individual/group supervision from program faculty.

Co-requisite(s): COUN 527

COUN 528 - Career Development

3 Credit(s)

This course provides students an understanding of the career planning process. Key career development theories will be examined and applied. The counseling process, the world of work, and career information resources, including computerized career assessment, will be examined in relation to career interventions.

COUN 530 - Couples/Family/Systems

3 Credit(s)

This course provides counseling students with the theoretical background and therapeutic skills necessary for therapeutic intervention in families, couples, and systems. Students will examine systems theory as it relates to families and couples and develop knowledge and skill pertaining to family-of-origin issues, addictions, parenting, and professional consultation.

COUN 531 - Parenting

3 Credit(s)

This course will provide helpful strategies to those working with children to help them make more effective choices that allow for shared control and equal respect. Using the Becoming a Love and Logic Parent Training, students will learn tips that will help parents develop the skills for shared control, take care of themselves, and make parenting a more enjoyable process.

COUN 534 - Counseling Modalities in a School Setting

3 Credit(s)

This course focuses on applying the skills interventions and modalities learned in the counseling courses to the school setting. Emphasis will be on learning to use evidence-based practices to help K-12 students function more effectively in the academic, personal/social, and career domains.

COUN 535 - Grief and Loss

3 Credit(s)

Experiences of grief and loss, death and the process of dying are all a part of our human existence. This course presents an overview of grief and the effects on aspects of living, the dying process, and the importance and process of grief work, and bereavement and how these relate to individuals, families and caregivers. Content will also include some of

the history, purpose and current practices related to various rituals; as well as focus on some ethical issues related to death and dying within the counseling profession.

COUN 536 - Pre-Practicum

3 Credit(s)

This course provides students an introduction to the counseling profession and helping relationships. The course will emphasize personal growth, self-awareness, and professional behavior. Students will experience the helping relationship as both client and counselor.

Co-requisite(s): COUN 536L

COUN 536L - Pre-Practicum Lab

0 Credit(s)

Students are required to take COUN-536L Pre-Practicum Lab along with their COUN 536 course. The COUN-536L is to engage in personal and professional growth as a counselor in training while demonstrating self-awareness and professional behaviors required of counselors in training. Students will experience the helping relationship as both client and counselor and receive individual/group supervision from program faculty.

Co-requisite(s): COUN 536

COUN 536LA - Pre-Practicum Lab (a.m.)

0 Credit(s)

Students are required to take COUN 536L Pre-Practicum Lab along with their COUN 536 course. The COUN 536LA and COUN 536LP to engage in personal and professional growth as a counselor in training while demonstrating self-awareness and professional behaviors required of counselors in training. Students will experience the helping relationship as both client and counselor and receive individual/group supervision from program faculty.

Co-requisite(s): COUN 536, COUN 536L, COUN 536LP

COUN 536LP - Pre-Practicum Lab (p.m.)

0 Credit(s)

Students are required to take COUN 536L Pre-Practicum Lab along with their COUN 536 course. The COUN 536LA and COUN 536LP to engage in personal and professional growth as a counselor in training while demonstrating self-awareness and professional behaviors required of counselors in training. Students will experience the helping relationship as both client and counselor and receive individual/group supervision from program faculty.

Co-requisite(s): COUN 536LA, COUN 536L, COUN 536

COUN 536RL - Reflection Group Lab

0 Credit(s)

This lab allows students to gain experience as a reflection group participant and is required.

COUN 537 - Practicum

3 Credit(s)

Practicum is a clinical, experiential course that requires students to complete hours in a professional setting. The student will apply counseling techniques and skills in a supervised setting. The student will participate in the counseling process, refine techniques, and further enhance his/her therapeutic development.

Co-requisite(s): COUN 537L

COUN 537L - Practicum Lab

0 Credit(s)

Students are required to take COUN-537L Practicum Lab along with their COUN 537 course. The COUN-537L is to engage in personal and professional growth as a counselor in training while demonstrating self-awareness and professional behaviors required of counselors in training. Students will experience the helping relationship as both client and counselor and receive individual/group supervision from program faculty.

Co-requisite(s): COUN 537

COUN 537LA - Pre-Practicum Lab (a.m.)

0 Credit(s)

COUN 537LP - Practicum Lab (p.m.)

0 Credit(s)

COUN 538 - Crisis, Disaster, and Trauma

3 Credit(s)

This course focuses on knowledge of the many types of intervention used to address a range of crises. We will explore definitions of crisis, crisis theory, and models applied to specific crisis situations. The characteristics of effective crisis workers will be examined. Emergency services, school crisis teams, crisis hotlines, and other crisis response units will be discussed. Various activities will be used to practice the skills learned.

COUN 539 - Sexuality Counseling

3 Credit(s)

This course is designed to increase the effectiveness of counselors in treating various sexual issues. Topics to be addressed in this course include male and female sexual systems, sexual myths, variations in sexual behavior, and common sexual and relationship concerns/disorders. Various therapeutic approaches will be presented. Note: Material covered and discussed in this class (videotapes included) is to be considered sexually explicit. Any student who is uncomfortable with explicit and detailed discussion of sexual issues, attitudes, behaviors, and practices should frankly consider whether participation in this course is appropriate for them at this time.

COUN 540 - Foundations of School Counseling

3 Credit(s)

This course provides an introduction to professional school counseling, including historical perspectives, theory, practice, employment settings, credentialing, legislation, research, and ethical considerations.

COUN 541 - Comprehensive School Counseling

3 Credit(s)

This course offers an in-depth exploration of current professional school counseling. Students will understand the skills needed in counseling, consulting, advocacy, and collaboration to promote academic success for all students. The course offers a comprehensive approach to a school counseling program. Students will learn the mechanism with which school counselors and school counseling teams design, coordinate, implement, manage and evaluate their programs for student success.

Prerequisite(s):

COUN 540 Minimum Grade: C

COUN 542 - Diagnosis and Psychopathology

3 Credit(s)

The evolution of the DSM, its organization, and use will be explored. The student will develop an understanding of the process of diagnosis and the classification of mental disorders. The etiology and treatment of psychological disorders will be reviewed. Clinical writing skills will be practiced.

COUN 546 - Assessment in Counseling

3 Credit(s)

This course provides students with an understanding of individual and group approaches to assessment and evaluation. Students will learn various assessment and appraisal techniques with emphasis on multicultural and diversity, ethical, and legal issues.

COUN 549 - Foundations Addict Counseling

3 Credit(s)

This course provides counselors in training with an overview of the addictive process and the practice of addiction counseling. Models and theories of addiction along with professional issues in addiction counseling, co-occurring disorders, such as process addictions will be addressed. Students will demonstrate conceptual knowledge, practical skills, and self-awareness concerning the etiology of addiction and its impact across the life-span, including criminology, neurological and societal implications. Assessment, diagnosis, and treatment of addictions with diversity and advocacy issues also being explored.

COUN 550 - Ethics and Professional Issues

3 Credit(s)

This course focuses on the ethical standards that govern the counseling profession. Current legislation and court

decisions affecting professional behavior are examined. Particular emphasis is placed on the individual counselor's development of a professional identity within legal and ethical parameters.

COUN 551 - Professional School Counseling Issues

3 Credit(s)

This course will focus on the day-to-day life of the school counselor and current trends in school counseling. Specifically, students will gain an understanding of the counselor as educational leader, working with parents and the community, diversity in schools, serving specific populations, crises/threat assessment, technology, career advisement, and ethical and legal issues.

COUN 552 - Cognitive Behavioral Therapy

3 Credit(s)

The purpose of this course is to introduce students to Cognitive Behavioral Therapy (CBT) theory and its applications. The traditional theories of Skinner, Bandura, Beck, Ellis and Meichenbaum will be studied as well as newer models of cognitive behavioral therapy (e.g., Cognitive constructivism and Mindfulness). Theory will be applied across the lifespan with a special focus on anxiety and depressive disorders. Students will also learn how to utilize a cognitive-behavioral manual in treatment.

COUN 553 - Child/Adolescent Psychopathology

3 Credit(s)

This course is designed to present the process of diagnosing childhood and adolescent disorders using the DSM. In addition, this course will provide the guidelines for treatment planning and implementation. Upon completion of this course, students will demonstrate the ability to more accurately diagnose, define treatment goals, and design and implement treatment plans for use in working with children and adolescents.

COUN 554 - Counseling Modalities for Clinical Mental Health

3 Credit(s)

This course focuses on applying the skills, interventions and modalities learned in the counseling courses to the Clinical Mental Health setting. Emphasis will be on learning to use evidence-based practices, working with clients with co-occurring diagnoses, and collaborating with multi-disciplinary teams.

COUN 555 - Clinical Mental Health Counseling

3 Credit(s)

This course focuses on issues in clinical mental health counseling including professionalism, roles and responsibilities, leadership, and management issues. The roles, responsibilities, and functions of the clinical mental health counselor will be discussed, showing the interrelatedness of community mental health counseling and other therapeutic professions (e.g., hospitals, law enforcement, and human services). In addition, the theoretical and historical framework within which the clinical mental health counselor has functioned in the past, the present, and the future will be explored.

COUN 556 - Mindfulness and Psychotherapy

3 Credit(s)

This course will introduce students to the practice of mindfulness and how it relates to the person of the therapist, the therapeutic alliance and the practice of counseling.

COUN 557 - Advanced Couples Counseling

3 Credit(s)

This course provides the counseling student the theoretical background and therapeutic skills necessary for intervention in couples. Students will examine systems theory and other therapeutic interventions for couples.

COUN 558 - Creativity in Counseling

3 Credit(s)

This course is designed to introduce students to creative approaches in counseling. Topics of discussion will include, but are not limited to: art therapy, sandray, bibliotherapy and music therapy. Students will understand how creative approaches can enhance the counseling process regardless of age and counseling modality. Course activities will include reading discussions, lectures, film and experiential learning.

COUN 562 - Counseling Adolescents

3 Credit(s)

This course is designed to develop students' knowledge and skills in the theory and practice of working with adolescents. Focus and attention of the course will be on issues, interventions, techniques and special considerations when counseling adolescents in any setting. Related topics include: developmental considerations, social and cultural factors of interpersonal issues of adolescents, gender specific and LGBT issues, multicultural family systems, use of diagnostic criteria, treatment planning issues, counseling interventions, relational and career issues, chemical and process addictions, technology, trauma focus and attachment, justice involved adolescents, sexually maladaptive behaviors and legal and ethical considerations.

COUN 564 - Treatment of Sexual Offending

3 Credit(s)

This course focuses on applying current skills, interventions, and modalities learned in the counseling courses in the provision of counseling services to those who sexually offend. Additionally, students will gain knowledge and awareness of current issues, modalities of treatment, and past and current management strategies of juvenile and adult sexual offenders.

COUN 566 - Introduction to Play Therapy

3 Credit(s)

This course provides an overview of essential play therapy elements and principles including history, theories, techniques, and modalities. Emphasis on observation and application of play therapy skills and technique. Covers three content areas required for the Registered Play Therapist credential - History, Theory, and Techniques and methods.

COUN 567 - Gestalt and Existential Therapy

3 Credit(s)

This course is an in-depth exploration of the therapeutic approaches of gestalt and existential therapies. Specific existential and phenomenological topics will be addressed including death, meaning, isolation, freedom, anxiety, guilt, authenticity, empathy, worlds, and being. Additionally, a range of gestalt concepts will be covered including contact, boundary disturbances, and the empty-chair technique. The emphasis of the course is on fostering an understanding of these theories in the context of counseling practice. Interventions from both theories will be explored. The course will also focus on integration of multiple counseling theories.

COUN 570 - Introduction to Neurocounseling

3 Credit(s)

This course provides an introduction and overview of an emerging modality known as Neurocounseling. In this course you will learn basic neuroscientific concepts and their application within various aspects essential to counseling. Specifically, this course will address the underlying neuroscientific concepts related to client mental health concerns and wellness. Neurocounseling approaches and adaptations in addictions, wellness, multiculturalism, counseling theory, and group work will be addressed as well.

COUN 580 - Advanced Play Therapy: Theory, Skills

3 Credit(s)

This course focuses on learning the different theoretical modalities of play therapy, as well as applying advanced skills, and interventions in play therapy.

Prerequisite(s):

COUN 566 Minimum Grade: B-

COUN 581 - School-Based Play Therapy

3 Credit(s)

This course provides an overview of how to integrate play therapy techniques and interventions into the school setting. This course will also provide an overview of play therapy modalities, discuss the requirements for professional certification as a school-based play therapist, discuss different assessments, and special topics related to incorporating play therapy into the school setting.

Prerequisite(s):

COUN 566 Minimum Grade: B-

AND

COUN 580 Minimum Grade: B-

COUN 583 - Adlerian Play Therapy

3 Credit(s)

This course focuses on learning and applying Adlerian play therapy.

COUN 584 - Suicidology

3 Credit(s)

This course introduces students to the field of suicidology. Students will develop knowledge of suicide across the lifespan and across diverse populations. In addition, this course is designed for students to develop requisite knowledge and skills in suicide assessment, intervention, and prevention. Particular emphasis will be given to knowledge and skills as they apply to clinical mental health and school counseling settings.

COUN 585 - Internship I Clinical Mental Health

3 Credit(s)

Students will utilize knowledge and skills gained in coursework and the practicum experience in a supervised counseling setting. Students will receive supervision, increase knowledge of the profession, increase skill base, and continue the process of self-exploration, and self-awareness.

Prerequisite(s):

COUN 537 Minimum Grade: B

AND

COUN 555 Minimum Grade: C

COUN 586 - Internship I School Counseling

3 Credit(s)

Students will utilize knowledge and skills gained in coursework and the practicum experience in a supervised counseling setting. Students will receive supervision, increase knowledge of the profession, increase skill base, and continue the process of self-exploration and self-awareness.

Prerequisite(s):

COUN 537 Minimum Grade: B-

COUN 587 - Internship I Addiction Counseling

3 Credit(s)

Students will utilize knowledge and skills gained in coursework and the practicum experience in a supervised counseling setting. Students will receive supervision, increase knowledge of the profession, increase skill base, and continue the process of self-exploration and self-awareness.

Prerequisite(s):

COUN 537 Minimum Grade: C

AND

COUN 549 Minimum Grade: C

COUN 593 - Special Internship Professional School

3 Credit(s)

This internship is designed to provide the student with actual supervised experience in school counseling. Instructor approval is required for registration.

Prerequisite(s):

COUN 524 Minimum Grade: C

AND

COUN 536 Minimum Grade: C

AND

COUN 537 Minimum Grade: C

COUN 594 - Special Internship Clinical Mental Health

3 Credit(s)

This internship is designed to provide the student with actual supervised experience in clinical mental health counseling. Instructor approval is required for registration.

Prerequisite(s):

COUN 524 Minimum Grade: C

AND

COUN 536 Minimum Grade: C

AND

COUN 537 Minimum Grade: C

COUN 595 - Internship II Clinical Mental Health

3 Credit(s)

A continuation of Internship I, students will complete their supervised on-site experience, expand their acquired skills, and receive further supervision.

Prerequisite(s):

COUN 585 Minimum Grade: C

COUN 596 - Internship II- School Counseling

3 Credit(s)

A continuation of Internship I, students will complete their supervised on-site experience, expand their acquired skills, and receive further supervision.

COUN 705 - Advanced Theories and Career

3 Credit(s)

This course examines several major counseling and career theories that inform current counseling practice. Students will have an opportunity to compare and analyze and evaluate the compatibility and effectiveness of counseling theories in practice, including evidence based practices, and ethical and culturally relevant practice in multiple clinical settings. Students will demonstrate knowledge and application of major theories pertaining to the principles and practices of counseling and career development to include the conceptualization of clients from multiple theoretical perspectives.

COUN 708 - Quantitative Research Method

3 Credit(s)

This course examines advanced quantitative research models and methods of instrument design, such as experimental and quasi-experimental designs. Students will gain knowledge and skill in developing quantitative research questions appropriate for professional research, designing a quantitative research study, and submitting research proposals for human subjects/institutional review board reviews. Students will also be introduced to writing for publication. The course will also address ethical and diversity issues involved in research design, measurement, and implementation.

Prerequisite(s):

Admission to the doctoral program

COUN 710 - Supervision and Consultation

3 Credit(s)

Theoretical and applied aspects of the human learning process related to clinical supervision and consultation, with an emphasis on the concepts, issues, and strategies of applied clinical supervision and its delivery will be explored in this course. This course provides an opportunity for students to synthesize and apply knowledge of supervision and the consultations process as they develop their personal style for supervision and consultation. Students will be exposed to current theories, models, and topics related to supervision and consultation. Ethical and legal issues in supervision and consultation will be addressed.

COUN 712 - Qualitative Research Methodology

3 Credit(s)

This course examines advanced qualitative research design and approaches and explores and contrasts philosophical assumptions of qualitative and quantitative research. Students will gain knowledge and skill in developing qualitative research questions appropriate for professional research, designing a qualitative research study, and submitting research proposals for human subjects/ institutional review board reviews. Students will also be introduced to writing for publication. The course will also address ethical and diversity issues involved in research design, sampling, and implementation. Areas of emphasis include specific methodologies, such as phenomenology and grounded theory, in addition to other common and emergent qualitative approaches in counselor education.

COUN 715 - Advanced Multicultural & Ethical Issues

3 Credit(s)

This course will provide an understanding of the cultural context of relationships, issues and trends in a multicultural and diverse society using relevant professional ethical codes and principles. Emphasis will be placed on delivering

culturally and ethically relevant counseling in multiple settings, conducting supervision, and conducting and reviewing research. Cultural and ethically relevant leadership and advocacy practices will be discussed. Students will explore current social and cultural issues, including social change theory and advocacy action planning. The role of racial, ethnic, and cultural heritage; nationality; socioeconomic status; family structure; age; gender; sexual orientation; religious and spiritual beliefs; occupation; physical and mental status; local, regional, national, and international perspectives; and equity issues in counselor education programs, counseling supervision, and counseling research.

COUN 717 - Instructional Theory in Counselor Education

3 Credit(s)

This course prepares students to teach counseling and related courses. Topics covered are learning theories, retention of material, motivation, classroom instructional strategies and techniques, and assessment of learning from the core learning expectations. This course will provide an overview of the history and development of counselor education with an examination of the theoretical orientation and practice skills necessary to function effectively as a counselor educator. Students will examine their personal philosophy of teaching and learning and demonstrate the ability to design, deliver, and evaluate methods appropriate to course objectives.

COUN 720 - Advanced Group Counseling

3 Credit(s)

This course focuses on a critical analysis of advanced group counseling theories, approaches, literature, and modalities applicable to working with groups. Students will engage in experiential learning focused on in-depth exploration of their personal approach to group leadership and supervision. Students will also develop advanced group counseling leadership skills and identify strategies based upon the special needs and characteristics of diverse client groups.

COUN 722 - Quantitative Data Analysis

3 Credit(s)

This course examines univariate and multivariate statistics most frequently used in psychological research. Students will learn how to read and interpret these statistics in published psychological research as well as how to apply them to the analysis of their own research projects. Students will learn how to select the appropriate statistical analyses, collect data in a controlled manner, analyze the data, and interpret the results. This course emphasizes skill in applying advanced statistical techniques to social science research, interpreting results of statistical analyses, and data analyses and presentations. This course will also address writing for professional publications and conference proposals, as well as ethical and diversity issues involved in analyzing and publishing research.

Prerequisite(s):

COUN 708

COUN 723 - Qualitative Data Analysis

3 Credit(s)

This course provides an in-depth exploration of qualitative research methodologies and the development of advanced-level qualitative research skills. Advanced topics in qualitative research are considered to foster critical thinking skills and to inform a long-term research agenda. Epistemological assumptions, theoretical considerations, data collection, and analytic procedures for grounded theory, phenomenological, narrative, case study, ethnographic research designs, and other emergent research practices and processes are reviewed. This course emphasizes skill in interpreting the results of qualitative data analyses; students will apply knowledge and skill to the analysis of their own research

projects. This course will also address writing for professional publications and conference proposals and ethical and diversity issues involved in analyzing and publishing research.

Prerequisite(s):

COUN 712

COUN 725 - Seminar in Counselor Education

3 Credit(s)

This course is designed to facilitate the student's awareness and knowledge in current issues related to counselor educators. Students will discuss and present current issues in the field, providing a format for debate and discussion. The course will increase the student's awareness of the ever-changing areas of social and educational change.

COUN 727 - Advanced Practicum in Counseling

3 Credit(s)

This advanced supervised practicum in counseling will enable doctoral-level students to develop and/or refine advanced counseling skills and conceptually link counselor practice and supervision. The doctoral practicum focuses on additional supervised clinical counseling experience beyond the supervised experience completed in the student's master's degree program. Students are required to participate in a supervised doctoral-level practicum of a minimum of 100 hours in counseling, of which 40 hours must be in direct service with clients. The nature of the doctoral-level practicum experience is to be determined in consultation with program faculty and/or a doctoral committee. Students will participate in weekly group supervision with a faculty member and other practicum students.

COUN 729 - Seminar: Leadership & Advocacy

3 Credit(s)

This leadership focused course will focus on current issues in counseling to include the role of ethical and legal consideration in counselor education and supervision. Focus will be on the theories, skills and models of leadership as well as strategies for responding to community, national, and international crises and disasters. Students will explore current topical and political issues in counseling and how those issues affect the daily work of counselors and the counseling profession. Students must demonstrate the ability to provide leadership or contribute to leadership efforts of professional organizations and/or counseling programs and the ability to advocate for the profession and its clientele.

COUN 734 - Advanced Research and Publication

3 Credit(s)

This course examines advanced topics and controversies in qualitative and quantitative counseling research; this integration of theoretical with applied counseling material will augment the department's standard doctoral research offerings. Students will engage in qualitative and quantitative research methods and complete a journal manuscript and conference proposal.

Prerequisite(s):

COUN 708 Minimum Grade: B-
AND

COUN 712 Minimum Grade: B-

AND

COUN 722 Minimum Grade: B-

COUN 735 - Advanced Assessment and Program Evaluation

3 Credit(s)

This course serves as an advanced course on the principles of assessment, testing, and evaluation. Students will examine and critique assessment instruments used in counseling and counselor education. Students will develop knowledge and skills to prepare them for teaching assessment at the Master level. Additionally, this course focuses on the concepts and processes related to program evaluation and the steps in performing a program evaluation. Emphasis is on the application and demonstration of critical thinking skills related to analyzing and evaluating programs. Students will also gain foundational knowledge about writing grant proposals appropriate for research, program enhancement, and/or program development.

Prerequisite(s):

Admission into the doctoral program

COUN 736 - Dissertation Seminar

3 Credit(s)

This course focuses on developing the essential components of the student's dissertation. This seminar is designed to assist students in making substantive progress in identifying and developing their dissertation proposal. Students will critically examine the current literature associated with their research interests and examine the current literature associated with their research interests and examine applicable conceptual constructs and methodologies. Students will complete the first drafts of the first three chapters of their dissertation, which will be used for their dissertation proposal. A complete review of the literature and draft of the dissertation proposal will be evaluated for methodological strengths and weaknesses.

Prerequisite(s):

COUN 708 Minimum Grade: B-

AND

COUN 712 Minimum Grade: B-

AND

COUN 722 Minimum Grade: B-

AND

COUN 734 Minimum Grade: B-

COUN 737 - Doctoral Internship I-Supervision

1 Credit(s)

Students are required to complete doctoral-level counseling internships that total a minimum of 600 clock hours. The

600 hours must include supervised experiences in at least three of the five doctoral core areas (counseling, teaching, supervision, research and scholarship, leadership and advocacy). The 600 credit hours may be allocated at the discretion of the doctoral advisor and the student on the basis of experience and training. Internship is designed to provide individual students with a planned program of advanced doctoral level professional experience in a college or community/agency setting. Internship assignments will be controlled and coordinated by a university instructor. An experienced professional at the internship site provides direct supervision. The doctoral-level internship will consist of providing individual and group supervision to master's level students, teaching and/or co-teaching master's level counseling courses, and participating in professional activities related to counselor education. If doctoral students have had limited clinical counseling experiences prior to beginning their doctoral work, they may also be required to complete credit hours in a counseling setting to gain more counseling experience

Prerequisite(s):

COUN 710 Minimum Grade: B-

COUN 738 - Doctoral Internship II Teaching

1 Credit(s)

Students are required to complete doctoral-level counseling internships that total a minimum of 600 clock hours. The 600 hours must include supervised experiences in at least three of the five doctoral core areas (counseling, teaching, supervision, research and scholarship, leadership and advocacy). The 600 credit hours may be allocated at the discretion of the doctoral advisor and the student on the basis of experience and training. Internship is designed to provide individual students with a planned program of advanced doctoral level professional experience in a college or community/agency setting. Internship assignments will be controlled and coordinated by a university instructor. An experienced professional at the internship site provides direct supervision. The doctoral-level internship will consist of student's engaging in teaching activities, which include but are not limited to teaching master's level students on-campus/online. If doctoral students have been limited clinical counseling experiences prior to beginning their doctoral work, they may also be required to complete credit hours in a counseling setting to gain more counseling experience.

Prerequisite(s):

COUN 710 Minimum Grade: B-
AND

COUN 737 Minimum Grade: B-

COUN 739 - Doctoral Internship III Supervision

1 Credit(s)

Students are required to complete doctoral-level counseling internships that total a minimum of 600 clock hours. The 600 hours must include supervised experiences in at least three of the five doctoral core areas (counseling, teaching, supervision, research and scholarship, leadership and advocacy). The 600 credit hours may be allocated at the discretion of the doctoral advisor and the student on the basis of experience and training. Internship is designed to provide individual students with a planned program of advanced doctoral level professional experience in a college or community/agency setting. Internship assignments will be controlled and coordinated by a university instructor. An experienced professional at the internship site provides direct supervision. The doctoral-level internship will consist of providing individual and group supervision to master's level students, teaching and/or co-teaching master's level counseling courses, and participating in professional activities related to counselor education. If doctoral students have had limited clinical counseling experiences prior to beginning their doctoral work, they may also be required to complete credit hours in a counseling setting to gain more counseling experience.

Prerequisite(s):

COUN 710 Minimum Grade: B-

AND

COUN 737 Minimum Grade: B-

AND

COUN 738 Minimum Grade: B-

COUN 741 - Doctoral Internship V Teaching

1 Credit(s)

Students are required to complete doctoral-level counseling internships that total a minimum of 600 clock hours. The 600 hours must include supervised experience in at least three of the five doctoral core areas (counseling, teaching, supervision, research and scholarship, leadership and advocacy). The 600 credit hours may be allocated at the discretion of the doctoral advisor and the student on the basis of experience and training. Internship is designed program of advanced doctoral level professional experience in a college or community/agency setting. Internship assignments will be controlled and coordinated by a university instructor. An experienced professional at the internship site provides direct supervision. The doctoral-level internship will consist of student's engaging in teaching activities, which include but are not limited to teaching master's level students on-campus/online. If doctoral students have had limited clinical counseling experiences prior to beginning their doctoral work, they may also be required to complete credit hours in a counseling setting to gain more counseling experience.

Prerequisite(s):

COUN 710 Minimum Grade: B-

AND

COUN 737 Minimum Grade: B-

AND

COUN 738 Minimum Grade: B-

AND

COUN 739 Minimum Grade: B-

AND

COUN 743 Minimum Grade: B-

COUN 742 - Doctoral Internship VI Supervision

1 Credit(s)

Students are required to complete doctoral-level counseling internships that total a minimum of 600 clock hours. The 600 hours must include supervised experience in at least three of the five doctoral core areas (counseling, teaching, supervision, research and scholarship and advocacy). The 600 credit hours may be allocated at the discretion of the doctoral advisor and the student on the basis of experience and training. Internship is designated to provide individual students with a planned program of advanced doctoral level professional experience in a college or community/agency setting. Internship assignments will be controlled and coordinated by a university instructor. An experienced professional at the internship site provides direct supervision. The doctoral-level internship will consist of providing individual and group supervision to master's level students, teaching and/or co-teaching master's level counseling courses, and participating in professional activates related to counselor education. If doctoral students have had limited clinical counseling experiences prior to beginning their doctoral work, they may also be required to complete credit

hours in a counseling setting to gain more counseling experience

Prerequisite(s):

COUN 710 Minimum Grade: B-
AND

COUN 737 Minimum Grade: B-
AND

COUN 738 Minimum Grade: B-
AND

COUN 739 Minimum Grade: B-
AND

COUN 743 Minimum Grade: B-
AND

COUN 741 Minimum Grade: B-

COUN 743 - Doctoral Internship IV Core

1 Credit(s)

Students are required to complete doctoral-level counseling internships that total a minimum of 600 clock hours. The 600 hours must include supervised experiences in at least three of the five doctoral core areas (counseling, teaching, supervision, research and scholarships, leadership and advocacy). The 600 credit hours may be allocated at the discretion of the doctoral advisor and the student on the basis of experience and training. Internship is designed to provide individual students with a planned program of advanced doctoral level professional experience in a college or community/agency setting. Internship assignments will be controlled and coordinated by a university instructor. An experienced professional at the internship site provides direct supervision. The doctoral-level internship will consist of student's choosing from one of three doctoral core areas to complete internship hours. These include counseling, research and scholarship, leadership and advocacy. If doctoral students have had limited clinical counseling experiences prior to beginning their doctoral work, they must also be required to complete credit hours in a counseling setting to gain more counseling experience.

Prerequisite(s):

COUN 710 Minimum Grade: B-
AND

COUN 737 Minimum Grade: B-
AND

COUN 738 Minimum Grade: B-
AND

COUN 739 Minimum Grade: B-

COUN 744 - Dissertation I

3 Credit(s)

This course is a Counselor Education & Supervision doctoral degree requirement focused on preparing students to inform professional practice by generating new knowledge for the counseling profession through dissertation research or a comparable research project focusing on areas relevant to counseling practice, counselor education, and/or supervision. Further, the course requires students to work individually with their doctoral committee to determine the specific requirements for completing dissertation research or comparable research project including a dissertation/project proposal and defense. Students may register for this course after successfully completing oral and written comprehensive exams and with the permission of their dissertation committee. The student's doctoral dissertation/project committee chair (or intended doctoral dissertation/project committee chair) will oversee the work of the student.

COUN 746 - Dissertation II

3 Credit(s)

This course is a Counselor Education & Supervision doctoral degree requirement focused on preparing students to inform professional practice by generating new knowledge for the counseling profession through dissertation research or a comparable project focusing on areas relevant to counseling practice, counselor education, and/or supervision. Further, the course requires students to work individually with their doctoral committee to determine the specific requirements for completing dissertation research or comparable research project including a dissertation/project proposal and defense. Students may register for this course after successfully completing oral and written comprehensive exams and with the permission of their dissertation committee. The student's doctoral dissertation/project committee chair (or intended doctoral dissertation/project committee chair) will oversee the work of the student. The student in collaboration with the supervising faculty member will develop a concrete plan of work related to the student's intended dissertation/research project.

Prerequisite(s):

COUN 744 Minimum Grade: B-

COUN 751 - Dissertation III

3 Credit(s)

This course is a Counselor Education & Supervision doctoral degree requirement focused on preparing students to inform professional practice by generating new knowledge for the counseling profession through dissertation research or a comparable research project focusing on areas relevant to counseling practice, counselor education, and/or supervision. Further, the course requires students to work individually with their doctoral committee to determine the specific requirements for completing dissertation research or comparable research project including a dissertation/project proposal and defense. Students may register for this course after successfully completing oral and written comprehensive exams and with the permission of their dissertation committee. The students doctoral dissertation/project committee chair (or intended doctoral dissertation/project committee chair) will oversee the work of the student. The student in collaboration with the supervising faculty member will develop a concrete plan of work related to the students intended dissertation/research project.

Prerequisite(s):

COUN 736 Minimum Grade: B

AND

COUN 744 Minimum Grade: B

AND

COUN 746 Minimum Grade: B

COUN 755 - Dissertation IV

3 Credit(s)

This course is a Counselor Education & Supervision doctoral degree requirement focused on preparing students to inform professional practice by generating new knowledge for the counseling profession through dissertation research or a comparable research project focusing on areas relevant to counseling practice, counselor education, and/or supervision. Further, the course requires students to work individually with their doctoral committee to determine the specific requirements for completing dissertation research or comparable research project including a dissertation/project proposal and defense. Students may register for this course after successfully completing oral and written comprehensive exams and with the permission of their dissertation committee. The student's doctoral dissertation/project committee chair (or intended doctoral dissertation/project committee chair) will oversee the work of the student. The student, in collaboration with the supervising faculty member, will develop a concrete plan of work related to the student's intended dissertation/research project.

Prerequisite(s):

COUN 736 Minimum Grade: B

AND

COUN 744 Minimum Grade: B

AND

COUN 746 Minimum Grade: B

AND

COUN 751 Minimum Grade: B

COUN 756 - Dissertation Continuation

1 Credit(s)

This course is a Counselor Education and Supervision doctoral degree requirement for students who have not successfully defended their dissertation after completing COUN 755 - Dissertation IV. This course allows students to continue and complete dissertations with the assistance of the dissertation committee.

Prerequisite(s):

COUN 736 Minimum Grade: B-

AND

COUN 744 Minimum Grade: B-

AND

COUN 746 Minimum Grade: B-

AND

COUN 751 Minimum Grade: B-

AND

COUN 755 Minimum Grade: B-

COUN 779 - Special Topics

1 to 6 Credit(s)

Special Topics in the Counselor Education.

CRM 500 - Philosophy, Laws, and Standards

3 Credit(s)

This is the introductory course for Cultural Resource Management. It covers the history and philosophy of CRM, the heritage preservation laws that created and govern the field, and current standards and practices of the field.

CRM 510 - Research Methods

3 Credit(s)

This course serves as an introduction to the wide variety of technologies and techniques used in CRM. It will delve into pre-field, field, and post-fieldwork methods as related to developing a research design. Some technologies covered may include: Office Suite, GIS, LiDAR, compositional analysis, and dating techniques. Specific techniques will be adjusted to each student's previous background and technological expertise.

CRM 520 - Report Writing

3 Credit(s)

Central to all good archaeology is the writing of reports. This is especially true in cultural resource management, but these reports have unique requirements. They must meet professional standards, the standards of the agencies responsible for the resources, and they must be written in a way that is understandable to the project sponsors. This course will prepare students to produce well-written reports and correspondence for this profession.

CRM 530 - Pre-Contact North America

3 Credit(s)

This course is a survey of North American archaeology prior to European contact. Various periods and themes are explored, focusing on the current debates in the field of archaeology and CRM.

CRM 531 - Post-Contact North America

3 Credit(s)

This course is a survey of North American archaeology after European contact. Various periods and themes are explored, focusing on the current debates in the field of archaeology and CRM.

CRM 560 - Applied GIS/CRM Professionals

3 Credit(s)

This course will introduce students to real world applications of Geographical Information Systems (GIS) as it is used in the Cultural Resource Management (CRM) field. Students will learn from applied examples about the critical thinking needed in cartography, digital data management, spatial data collection, resource management, statistical analysis, and visual learning.

CRM 561 - Geoarchaeology

3 Credit(s)

This online course is an introduction to geoarchaeology and the application of the geosciences to archaeological questions and research. This includes topics such as sedimentology, geomorphology, pedology, paleoenvironmental and paleoclimate reconstruction, geochemical provenance studies, Quaternary dating methods, and site formation processes.

CRM 570 - Selected Readings in CRM

3 Credit(s)

This course permits the student to work with an instructor to develop a syllabus of readings on a topic of the student and instructors choice that is not otherwise offered through the institution.

CRM 571 - Archaeological Theory

3 Credit(s)

This is an online course which will cover the central theories that have driven the field of archaeology.

CRM 579 - Special Topics

1 to 6 Credit(s)

This course will be developed by the instructor on topics of interest to the students in the CRM Master's Program that are not otherwise offered in the degree plan.

CRM 580 - Internship

3 Credit(s)

This is a practicum in cultural resource management during which the student will work on one or more actual CRM projects at least at the level of assistant project director. The work will be carried out in conjunction with a recognized CRM firm or a land managing agency.

CRM 581 - Previous Archaeological Experience

3 Credit(s)

This course permits students to receive credit for prior professional employment and/or archaeological research.

Prerequisite(s):

Previous archaeological, museums, historic preservation, or other relevant field experience for a degree in cultural resource management.

Grade Mode: Pass/Fail

CRM 591 - Thesis

3 Credit(s)

Students work through the research design, organization, and background material that will become their master's thesis. This will include a clear and decisive research question, a brief proposal, a hypothesis, and structural outline, all of which serve as guides in the organization of your thesis. Drafts of a culture history, environmental background and methods sections for the thesis are developed in conjunction with the committee chair.

Grade Mode: Pass/Fail

Prerequisite(s):

Approval of CRM advisor and/or course instructor. CRM 570 is recommended to prepare for this class, but not required.

CRM 592 - Continuing Thesis

1 to 6 Credit(s)

This course is required each fall and spring semester after the student has taken CRM 591 (Thesis) and until successful defense of the thesis.

Grade Mode: Pass/Fail

CRM 599 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Head.

CSCI 101 - Introduction to Programming

3 Credit(s)

Introduction to computer programming. Students will learn to write object-oriented, structured, event-driven code through the use of a user-friendly programming language such as Python, Alice, or Microworlds.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

Accuplacer - Math - Minimum Score: 085

OR

MATH 99 Minimum Grade: S

CSCI 104 - Fundamentals of Programming**3 Credit(s)**

This course is the first course in the introductory programming sequence for computer science and information technology majors, but is suitable for non-majors interested in getting a taste of computer programming. The course covers program creation, basic control structures, variables, arithmetic expressions, functions, parameters, internal documentation, arrays and strings.

CSCI 179 - Special Topics**1 to 5 Credit(s)**

Offered periodically to meet student special interests in the field.

CSCI 192 - Workshop**1 to 4 Credit(s)**

Short courses offered on an intermittent basis to meet the needs of special constituents.

CSCI 199 - Individual Studies**1 to 5 Credit(s)**

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

CSCI 202 - Programming for Science/Math/Engineering**3 Credit(s)**

Covers the fundamentals of programming in a language widely used in mathematical, scientific, and engineering disciplines. The programming language may vary each time the course is offered. Examples of languages that may be used in the course include C++, Python, and MatLab.

Prerequisite(s):

Math Placement Test - Minimum Score: 5

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

CSCI 205 - Computer Science I

4 Credit(s)

This course is the second course in the introductory programming sequence for computer science majors. Through the study of object design this course introduces the basics of graphical user interfaces, data types, control structures, methods, arrays, strings, files, simple graphics and fundamental algorithms. Students will also be introduced to object oriented design, polymorphism, interfaces, the concept of object abstraction, and simple design patterns.

Prerequisite(s):

CSCI 104 Minimum Grade: C- OR T

OR

CSCI 202 Minimum Grade: C- OR T

CSCI 206 - Computer Science II

4 Credit(s)

This course is the third course in the introductory programming sequence for computer science. The course continues object oriented programming and first concepts in object oriented software design. The course also covers classic data structures and algorithms. Concepts covered include streams, graphs, trees, recursion, complexity classes, sorting and searching routines, basic algorithm design and analysis, threading, and generic programming.

Prerequisite(s):

CSCI 205 Minimum Grade: C- OR T

CSCI 224 - Discrete Concepts

4 Credit(s)

A course on the fundamentals of discrete (as opposed to continuous) processes. The course is a foundational course for students pursuing the B.S. Mathematical Sciences Computer Science degree. The course covers a variety of discrete mathematical topics required for a solid background in computer science, including mathematical logic, set theory, induction, algorithmic complexity, combinatorics, discrete probability, basic graph theory, relations, Boolean algebra, finite state automata, and basic theory of computation.

Prerequisite(s):

Math Placement Test - Minimum Score: 5

OR

MATH 106 Minimum Grade: C- OR T

AND

CSCI 205 Minimum Grade: C- OR T

CSCI 279 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

CSCI 292 - Workshop

1 to 4 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

CSCI 299 - Individual Studies

1 to 5 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

CSCI 307 - Programming Languages & Platforms

3 Credit(s)

This course will examine several of the most used programmable platforms/contexts, the programming languages that are used for each, and why each is the way it is. Specific cases and examples that will be considered are cloud computing, mobile platforms, multiprocessors, service oriented architectures, virtual machines, functional programming, logic programming, web services, security, scripting, and even a little low level programming. Students will learn about the various types of programming languages and their appropriate use as well as the use of scripting languages, architectures, application programming interfaces, and programming practices to facilitate the management, integration and security of the systems that support an organization.

Prerequisite(s):

CSCI 205 Minimum Grade: C- OR T

CSCI 316 - Computer Architecture

3 Credit(s)

This class will introduce concepts of computer architecture and organization, including assembly level machine organization, data representation, memory systems, bus principles, digital logic, micro programs, functional machine architecture, RISC, CISC, parallel architectures and other advanced architectures. It will expose students to assembly-level programming and will make them implement assembly programs.

Prerequisite(s):

CSCI 206 Minimum Grade: C- OR T

CSCI 318 - Multiprocessor Computing

3 Credit(s)

Introduction to multiprocessor programming and application development covers the principles and practice of distributed system architectures and models, interprocess communication, distributed algorithms, concurrency, security, application programming interfaces, system performance, and programming paradigms appropriate for programming of multiprocessor systems.

Prerequisite(s):

CSCI 325 Minimum Grade: C- or T

CSCI 325 - Algorithm Design and Analysis

3 Credit(s)

Introduces formal techniques to support the design and analysis of algorithms, focusing on both the underlying mathematical theory and practical considerations of efficiency. Topics include asymptotic complexity bounds, techniques of analysis, algorithmic strategies, and an introduction to automata theory and its application to language translation.

Prerequisite(s):

CSCI 205 Minimum Grade: C- or T

AND

CSCI 206 Minimum Grade: C- or T

AND

MATH 250 Minimum Grade: C- or T

CSCI 326 - Mathematical Modeling and Simulation I

3 Credit(s)

This course teaches students how to apply mathematical modeling processes, methodology and software toolsets to solve realistic and complex problems, as well as to program and perform computer simulations of mathematical models.

Prerequisite(s):

MATH 220 Minimum Grade: C- OR T

OR

MATH 121 Minimum Grade: B

AND

CSCI 104 Minimum Grade: C-

OR

CSCI 202 Minimum Grade: C-

OR

CSCI 205 Minimum Grade: C-

CSCI 335 - Foundations of Networks

4 Credit(s)

This course introduces students to computer networks. Focus is on the concepts of networking like the OSI layered network architectures, network protocols and protocol design. Topics include the fundamentals of networking and communications, network management and wireless computing. Lab sessions feature computer networking hands-on exercises. The course also exposes students to network programming through the use of sockets

Prerequisite(s):

CSCI 205 Minimum Grade: C- OR T

CSCI 336 - Mathematical Modeling and Simulation I

3 Credit(s)

This course teaches students how to apply mathematical modeling processes, methodology and software toolsets to solve realistic and complex problems, as well as to program and perform computer simulations of mathematical models.

Prerequisite(s):

MATH 220 Minimum Grade: C-
OR

MATH 121 Minimum Grade: B

AND

CSCI 104 Minimum Grade: C-

OR

CSCI 202 Minimum Grade: C-

OR

CSCI 205 Minimum Grade: C-

CSCI 341 - Web Design

3 Credit(s)

This course covers the design, implementation and testing of web-based applications including related software, databases, interfaces, and digital media. It also covers social, ethical, and security issues arising from the Web and social software. Students use these tools to turn the static pages into a powerful, interactive Web site.

Prerequisite(s):

CSCI 205 Minimum Grade: C- OR T

CSCI 343 - Database Systems and Applications

4 Credit(s)

Introduction to database design, implementation, security, transaction management, administration, and programming. Includes a study of embedded, relational, object-oriented, and distributed database architectures.

Prerequisite(s):

CSCI 205 Minimum Grade: C- OR T

CSCI 347 - Software Development/Professional Practice I

2 Credit(s)

Combines a range of topics integral to the design, implementation, and testing of medium-scale software systems including fundamental design patterns, software development processes and project management. Students will form teams, work on two small projects during the term and create a proposal for a medium scale software system to be completed in CS348. In addition to material on software architecture and engineering, this course also includes material on professionalism and ethical responsibilities in software development and design.

Prerequisite(s):

CSCI 206 Minimum Grade: C- OR T

CSCI 348 - Software Development/Professional Practice II

2 Credit(s)

The follow up course for CSCI 347 in which students will implement, with their team, a software design they created in CSCI 347. Students will experience project management and software development processes directly. The course will focus on programming techniques and the last stages of the software development process, including design, validation, evolution, human computer interaction, using APIs, software tools and software development environments.

Prerequisite(s):

CSCI 347 Minimum Grade: C- OR T

CSCI 379 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

CSCI 392 - Workshop

1 to 4 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

CSCI 399 - Individual Studies

1 to 5 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

CSCI 417 - Computer Systems and Architecture

4 Credit(s)

This class will familiarize students with the basics of the inner workings and design of Computer Systems. The course will examine how operating systems, computer hardware and other system software/hardware combine to produce a usable, efficient and secure system. Topics will include basic machine architecture, memory management (primary and secondary), bus principles, I/O devices, data representation, file systems, process/thread management, scheduling, simple digital logic, virtualization, real time systems concepts, and embedded systems. This course will also examine alternative system designs including basic distributed systems.

Prerequisite(s):

CSCI 206 Minimum Grade: C- OR T

CSCI 427 - Cybersecurity

4 Credit(s)

This course provides an in-depth study of network attack techniques and methods to defend against them. Areas of study include communication security, infrastructure security, social engineering, cryptography, operational and organizational security as it relates to network hardware, software and data. Topics include authentication, confidentiality, integrity, virtual private networks, email protection, web security, wireless security, firewalls, intrusion detection, cryptography, disaster recovery and computer forensics regarding networked systems. In addition, this course combines an ethical methodology with the hands-on application of security tools to better help students to secure and defend their systems, as well as to investigate and diagnose security breaches. Students are introduced to common countermeasures that effectively reduce and/or mitigate attacks. This class is designed to help students prepare for professional careers in the information security field and the Certified Ethical Hacker (CEH) certification exam. The course contains a lab component where students will conduct a variety of security based hands-on activities using open source actual or virtual systems.

Prerequisite(s):

CSCI 206 with Minimum Grade C- OR T
AND

CSCI 335 with Minimum Grade C- OR T

CSCI 428 - Artificial Intelligence

3 Credit(s)

Provides both a brief overview of the basics of artificial intelligence and machine learning, and an in-depth investigation of selected hot topics in the field. The course will examine basic and advanced search techniques, knowledge representation, machine learning and data mining, natural language processing, and historical and philosophical issues regarding artificial intelligence. The course is a project-based course that will involve implementing and experimenting with open-source machine-learning software.

Prerequisite(s):

CSCI 206 Minimum Grade: C- or T

AND

CSCI 224 Minimum Grade: C- or T

CSCI 436 - Research in Computer Science

1 Credit(s)

An independent research course. The student will work with a professor on a research project designed by the student or the professor. The student's research must result in a professional quality paper or project and a presentation before a group of peers and professors.

CSCI 438 - Cloud Computing

3 Credit(s)

This course educates participants about cloud deployment and service models, cloud infrastructure and the key considerations in migrating to cloud computing. For all definitions of cloud computing, the course has resorted to the U.S. National Institute of Standards and Technology as a guide. The course covers technologies required to build classic (traditional), virtualized, and cloud data center environments. These technologies include compute, storage, networking, desktop and application virtualization. Additional areas of focus include backup/recovery, business continuity, security, and management. Students will learn about the key considerations and steps involved in transitioning from the current state of their data center to a cloud computing environment. Upon completing this course, participants will have the knowledge to make informed decisions about migrating to cloud infrastructure and choosing the best deployment model for their organization.

Prerequisite(s):

CSCI 318 minimum grade C- or T

AND

CSCI 335 minimum grade C- or T

AND

CSCI 417 minimum grade C- or T

CSCI 471 - Senior Capstone I

1 Credit(s)

First-semester of a capstone course intended for senior computer science and information technology majors. In this course students will begin the development of a project to be conducted under the guidance of a faculty advisor from the department. In addition, the course will focus on written and oral communication of technical material appropriate to the disciplines of mathematics, computer science, and physics.

CSCI 472 - Senior Capstone II

1 Credit(s)

Second-semester of a capstone course intended for senior computer science and information technology majors. In this course students will continue the development of an independent project, begun in CSCI 471, and conducted under the guidance of a faculty advisor from the department. In addition, the course will focus on written and oral communication

of a technical material appropriate to the mathematical sciences.

Prerequisite(s):

CSCI 471 Minimum Grade: C- OR T

CSCI 479 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

CSCI 492 - Workshop

1 to 4 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

CSCI 499 - Individual Studies

1 to 5 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

CSCI 579 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

CSCI 592 - Workshop

1 to 4 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

CSCI 599 - Individual Studies

1 to 5 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Chair.

ECE 279 - Special Topics

3 Credit(s)

Offered periodically to meet students special interests in the field.

ECE 379 - Special Topics

Offered periodically to meet student special interests in the field.

ECE 399 - Individual Study

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

ECE 553 - Play in Early Childhood

2 Credit(s)

In this graduate course students explore the nature of play, and creativity, and how these are nurtured and enriched. Play theory, play research and the nature and stages of play are examined. Interrelationship between play, creativity and development, learning, and imagination are deeply explored. This course is designed to examine the content and methods available to facilitate children's expression through art, music, free play and dramatic play within the early childhood environment.

ECE 573 - Advanced Infant/Toddler Development

2 Credit(s)

This graduate course provides an in-depth study of important influences on infant and toddler development, with emphasis on the responsive care. Responsive care provision in creating high quality, supportive environments with sensitivity to attachment and the importance of communication skills in nurturing positive parent/teacher/child relationships will be deeply explored. Resident placement will provide field experience in an approved ECE setting.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

ECON 299 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

ECON 360 - Natural Resource Economics

3 Credit(s)

This course studies the usage of natural resources in the economy, the value of natural resources to society, and the allocation of renewable and nonrenewable resources. The course introduces economic theories for efficient management of natural resources and considers sustainability, conservation, and preservation. The course will consider resources, such as water, on a local scale as well as a global scale.

ECON 365 - Political Economy

3 Credit(s)

This course offers a critical introduction to the central ideas used by Political Economists to understand the structure, social meaning, and historical development of capitalist economies. Lectures draw on competing traditions in Political Economy to provide a critical appreciation of the defining socio-economic relationships of capitalism, including wages, productivity, profits, inequality, prices, entrepreneurship, markets, capitalism, growth, crises, recessions, socialism, etc. While these discussions necessarily involve economic theory, the overall emphasis is on how an analytically diverse understanding of these relationships can open up unique, critical perspectives into the problems of contemporary capitalism.

ECON 370 - Economics of Crises

3 Credit(s)

This course studies the nature of economic crises in capitalism. The course will explore theories of crises such as supply-side, demand-side, and financial crises. We will analyze the social consequences of crises as well as the policies implemented.

ECON 379 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

Prerequisite(s):

ECON 255 Minimum Grade: D OR T
AND

ECON 256 Minimum Grade: D OR T

ECON 399 - Individual Studies

1 to 3 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

Prerequisite(s):

ECON 255 Minimum Grade: D OR T

AND

ECON 256 Minimum Grade: D OR T

ECON 425 - Economic Policy

3 Credit(s)

Study of the structure and functions of the U.S. economic system and the use of monetary, fiscal, and other policies to stabilize the economy. Emphasis on historical roots and the evolution into new behavioral economic ideas as well as the complex interplay of policy and economic forces.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

ECON 433 - Managerial Economics

3 Credit(s)

Application and integration of microeconomic theory and the tools of decision science to managerial decision-making. Particular emphasis placed on the economic differences caused by monopolies, cartels, and multi-national organizations and their domination of many industries. Understanding of game theory and new economic analysis tools.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

ECON 479 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

Prerequisite(s):

ECON 255 Minimum Grade: D OR T
AND

ECON 256 Minimum Grade: D OR T

ECON 499 - Individual Studies**1 to 3 Credit(s)**

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

Prerequisite(s):

ECON 255 Minimum Grade: D OR T
AND

ECON 256 Minimum Grade: D OR T

ECON 505 - Managerial Economics**3 Credit(s)**

This course demonstrates how economics theory is applied to national and international managerial decision-making. The course covers topics such as demand analysis, production and cost functions, market structure, managerial understanding of public policy, and international trade finance topics. Pre-req.-Undergraduate Economics course with a grade of C or higher.

ECON 579 - Special Topics**1 to 3 Credit(s)**

Offered periodically to meet student special interests in the field.

ECON 599 - Individual Studies**1 to 3 Credit(s)**

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Chair.

ED 179 - Special Topics**1 to 5 Credit(s)**

Offered periodically to meet student special interests in the field.

ED 199 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

ED 200 - Perspectives of Teaching and Learning

3 Credit(s)

A study of school, societal and cultural issues and their influences on teaching and learning. As an introductory course, the purpose is to learn about teaching as a career choice, the historical development of American education, social and political structures in the schools, and power groups influencing educational policy. Issues of educational reform will include civil rights, students' rights, ethnic, gender and racial issues, individualizing instructions, special education, learning theory models, (inclusive of diversity issues related to electronic media) and alternative school structures. Emphasis is placed on the orientation and development of a proficient and reflective professional educator. A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

ED 220 - The Exceptional Learner

3 Credit(s)

This course is designed to survey the foundations of special education, including historical, philosophical perspectives, legal issues and current trends in instruction and programming. Students will explore the role of general education as it relates to the education of the student with exceptional needs. Emphasis will be placed on developing knowledge of various disabling conditions, available resources and educational alternatives. Students will learn about the ethical and sociopolitical influences on prevention, intervention and educational programs for students with special needs, from birth through post-secondary ages. Learning characteristics and the diverse needs of students who receive special education services will also be studied. From a pedagogically sound, as well as developmentally appropriate perspective, the similarities and differences within and between exceptionalities and typical development will be emphasized. A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office PRIOR to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

ED 230 - Science of Reading

3 Credit(s)

This foundational course in reading explores literacy development and the structure of language by a) defining the relationship between cognitive and linguistic development, b) assessing literacy development, c) nurturing the development of emergent literacy, and d) investigating and planning instruction for the five components of reading

which include phonemic awareness, phonics, fluency, vocabulary, and comprehension.

NOTE:

- A 20-hour, pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field-experience. Photo IDs must be obtained PRIOR to the beginning of the field-experience component.
- Field-experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

ED 240 - Math for Elementary Teachers

3 Credit(s)

This course is designed for prospective elementary teachers. Emphasizes the real number system, arithmetic operations, algebra, probability, data analysis, geometry, and measurement. Explorations focus on representing, analyzing, generalizing, formalizing, and communicating patterns and probabilities. Representations of data, two- and three-dimensional shapes, their properties, measurements, and transformations will also be explored. Content presented using problem solving, exploration, and integration with other discipline areas.

Prerequisite(s):

Clear Fingerprint background check

ED 250 - Science for Elementary Teachers

3 Credit(s)

This course will support students developing a better understanding of elementary science concepts and processes. It will focus on the Crosscutting Concepts to help students explore connections across the four domains of science. The class will focus on the disciplinary core Ideas, which are the key ideas in science that have broad importance within or across multiple science or engineering disciplines. The discipline core ideas are grouped into the following four domains: Physical Science, Life Science, Earth and Space Science, and Engineering. Content will be presented using inquiry science and project-based instruction.

Prerequisite(s):

Clear Fingerprint background check

ED 279 - Special Topics

Offered periodically to meet student special interests in the field.

ED 299 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

ED 300 - The Reading and Writing Connection

3 Credit(s)

This course delves into the art of effective teaching methods in the realms of reading and writing, highlighting the intricate link between these subjects. Furthermore, it addresses the reality that some students encounter difficulties in these areas. The course equips learners with the skills to employ a diverse range of assessments, encompassing both formal and informal approaches, to gauge a student's strengths and areas needing improvement. It will also elucidate the significance of employing various assessment methods and their impact on enhancing instruction and elevating student achievement. This course will involve lecture, discussion, videos in a hybrid, online, or face-to-face model along with practice in the classroom. Students will complete associated hours of supervised field-based experiences to observe and interact directly in educational environments. Field service hours are required for licensure. Documentation of verified hours will be collected as part of the undergraduate course. Students will be responsible for their own transportation to the field sites.

Note:

- A 20-hour, pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field-experience. Photo IDs must be obtained PRIOR to the beginning of the field-experience component.
- Field-experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to Ed Prep Program and Clear Fingerprint background check

ED 304 - Secondary Teaching and Learning Methods

3 Credit(s)

This course is an introduction to concepts and techniques of imparting state academic standards to middle and high school students. A study of effective teaching methods used in preparing a secondary education majors in Business, Language Arts, Social Studies, and World Languages.

NOTE:

- A 40-hour, pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field-experience. Photo IDs must be obtained PRIOR to the beginning of the field-experience component.
- Field-experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

ED 310 - STEM Methods

3 Credit(s)

This course provides a background on high leverage practices such as: explaining and modeling content, eliciting and interpreting, and diagnosing patterns of student thinking for STEM. The course will also include close examination of the P-6 Colorado Science and Mathematics Content Standards. This background prepares students to develop and implement STEM learning experiences for students at the elementary grade level. Emphasis is on the integration of

STEM into the broader curriculum, especially literacy, and to instruction strategies that support success for all students, including linguistically and culturally diverse learners. Topics cover interpreting student work, checking student understanding, designing units, being precise with language in STEM content, and how to use inquiry.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

Co-requisite(s): ED 434L

ED 340 - Methods for Teaching Math - Secondary

3 Credit(s)

This course is designed to support the beginning secondary math teacher. Presuming a solid foundation of conceptual knowledge in the content area, the course emphasizes the development of a framework of instructional knowledge and skills to provide successful learning for all students.

NOTE:

- A 40 hour pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

ED 345 - Educational Psychology

3 Credit(s)

Designed to explore the background of educational psychology. Major topic areas include: research, value and utilization, student characteristics and diversity, learning theories and their application, motivation, teaching methods and practices, evaluating student learning, and standardized measurements. Students will develop increased ability to understand and assess the interrelationships of intellectual, cognitive, instructional, personality, social and cultural influences, theories, and factors as they affect the learning environments. Students will cover assessment procedures, analysis of data, legal and ethical responsibilities as part of necessary research and evaluation within the school learning environment. Emphasis is placed on developing knowledge of historical and current research and its meaning for interaction and planning in the school setting.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

ED 347 - Teaching, Learning, and Technology

3 Credit(s)

This course is an introduction to the theories and applications of appropriate and effective uses of technology to achieve pedagogical goals. Content includes exploring emerging technologies, designing lessons aligned to the Colorado Essential Skills, integrating digital tools to strengthen teaching and improve student learning, identifying guidelines for designing and implementing online learning environments, comparing various theories of teaching and learning related to the design of virtual lessons/online programs, and describing effective instructional strategies for online learning. Using technology in K-12 classrooms is relevant to prepare students for success in post-secondary and workforce settings.

Prerequisite(s):

Clear Fingerprint background check

ED 350 - Methods for Teaching Science - Secondary

3 Credit(s)

This course is designed to support the beginning secondary science teacher. Presuming a solid foundation of conceptual knowledge in the content area, the course emphasizes the development of a framework of instructional knowledge and skills to provide successful learning for all students.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

ED 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

ED 392 - Workshops

0.5 to 5 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

ED 399 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

ED 414 - Inclusive and Safe Classroom Management

3 Credit(s)

This course explores the foundational principles of effective classroom instruction, behavior evaluation, and management techniques while promoting a safe and healthy school environment. This course equips candidates with critical thinking skills to design and implement successful classroom management strategies, emphasizing student achievement through effective time management, communication, and record-keeping procedures. Candidates will also develop comprehensive management plans. Candidates will examine school law and professional ethics for educators. They will gain insights into the legal and ethical frameworks that guide their roles as educators, ensuring they are well-prepared to uphold the highest standards of professionalism and integrity. The content of this course addresses health and wellness topics, including conflict resolution, mediation, nutrition, emergency protocols, and first aid within the educational setting. Candidates will design and implement SEL curricula, considering diverse student needs and crisis prevention and intervention strategies. This course is essential for educators to create a safe, healthy, and inclusive learning environment.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to the Educator Preparation Program; Clear Fingerprint background check

Co-requisite(s): ED 434L

ED 426 - Pedagogical Strategies for Cultural Competence

3 Credit(s)

This is a dynamic and transformative course designed to equip future educators with the essential knowledge and skills to foster cultural competence in the classroom. Students will engage in learning that enhances their ability to use data to better understand and respond to diversity in their respective schools and communities. They will critically examine the impact of cultural values and bias on school curriculum and teacher practice, while applying strategies aimed at creating more culturally responsive experiences for diverse children. Students will also deepen their understanding and practice in working with vulnerable students and families, including those facing abuse, trauma, generational poverty and other forms of crisis.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

Co-requisite(s): ED 434L

ED 429 - Content Area Literacy

2 Credit(s)

Approaches and strategies for teaching secondary reading in various subject areas. Topics include textbook selection and readability, comprehension skills, study skills, and meeting needs of diverse student populations.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to the Educator Preparation Program; Teacher Education Background Check Passed

Co-requisite(s): ED 434L

ED 434L - Field Experience Lab

3 Credit(s)

Senior Block component. Labs scheduled one day per week, eight hours per day. Students complete field hours as arranged by the Teacher Education office. Reflections and proficiencies demonstrated during this experience meet requirements for evidences related to concurrent (senior block) courses. Supervision is provided by senior block course instructors. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

ED 435 - Student Teaching - Elementary

1 to 15 Credit(s)

This field experience serves as a culmination of the teacher licensure program and provides student teachers with a comprehensive experience in a public school setting. Students must complete all components outlined in the Student Teaching Handbook. A team of faculty supervisors and mentors will help the student teacher acquire the necessary skills in the practice of building a community of learners while teaching and learning. The community of learners includes the student teacher, the cooperating mentor teacher, the university field supervisor, the building principal, and the classroom students. This student teaching experience requires a minimum of 640 hours of contact time.

Prerequisite(s):

Admission to Ed Prep Program; Permission to Student Teach; Clear Fingerprint background check

ED 445 - Student Teaching - Secondary

1 to 15 Credit(s)

This field experience serves as a culmination of the teacher licensure program and provides student teachers with a comprehensive experience in a public school setting. Students must complete all components outlined in the Student Teaching Handbook. A team of faculty supervisors and mentors will help the student teacher acquire the necessary skills in the practice of building a community of learners while teaching and learning. The community of learners includes the student teacher, the cooperating mentor teacher, the university field supervisor, the building principal, and the classroom students. This student teaching experience requires a minimum of 640 hours of contact time.

Prerequisite(s):

Admission to Ed Prep Program; Permission to Student Teach; Clear Fingerprint background check

ED 455 - Student Teaching K-12

1 to 15 Credit(s)

This field experience serves as a culmination of the teacher licensure program and provides student teachers with a comprehensive experience in a public school setting. Students must complete all components outlined in the Student Teaching Handbook. A team of faculty supervisors and mentors will help the student teacher acquire the necessary skills in the practice of building a community of learners while teaching and learning. The community of learners includes the student teacher, the cooperating mentor teacher, the university field supervisor, the building principal, and the classroom students. This student teaching experience requires a minimum of 640 hours of contact time.

Prerequisite(s):

Admission to Ed Prep Program; Permission to Student Teach; Clear Fingerprint background check

ED 478 - Special Topics

3 Credit(s)

This course is designed to provide the secondary licensure candidate with focused application and discussion of the skills and strategies needed to effectively teach in the content area. This course is a pre-requisite to the secondary Post-Baccalaureate Licensure (PBL) program of study. Topics will vary according to the emphasis area of the candidate: business, foreign language (Spanish), English, math, science, or social studies.

ED 478L - Field Experience Lab

5 Credit(s)

Lab hours in degree programs are assigned within the syllabi of the courses in which the hours are assigned. There is no syllabus for this lab course.

ED 479 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

ED 492 - Workshops

0.5 to 5 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

ED 499 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

ED 501 - Perspectives in Teaching and Learning

3 Credit(s)

This course is a study of school, societal and cultural issues and their influences on teaching and learning. As an introductory course, the purpose is to learn about teaching as a career choice, the historical development of American education, social and political structures in the schools, and power groups influencing educational policy. Issues of educational reform will include civil rights, students' rights, ethnic, gender and racial issues, individualizing instructions, special education, learning theory models, (inclusive of diversity issues related to electronic media) and alternative school structures. Emphasis is placed on the orientation and development of a proficient and reflective professional educator.

ED 502 - The Exceptional Learner

3 Credit(s)

This course is designed to survey the foundations of special education, including historical, philosophical perspectives, legal issues and current trends in instruction and programming. Students will explore the role of general education as it relates to the education of the student with exceptional needs. Emphasis will be placed on developing knowledge of various disabling conditions, available resources and educational alternatives. Students will learn about the ethical and sociopolitical influences on prevention, intervention and educational programs for students with special needs, from birth through post-secondary ages. Learning characteristics and the diverse needs of students who receive special education services as well students who culturally and linguistically diverse will also be studied. From a pedagogically sound, as well as developmentally appropriate perspective, the similarities and differences within and between exceptionalities and typical development will be emphasized.

ED 503 - Understanding the Principalship

3 Credit(s)

This course is an introduction to the Principal Licensure program with assessment components, grounded in the Colorado's Principal Quality Standards, English Language Learner Standards, READ Act School Administrator Standards, and Standards for Educator Effectiveness. Candidates will be expected to critically examine each of Standards in terms of how they are implemented through policies and practices within their own districts while making recommendations for improving such policies based on current research and best practice.

Prerequisite(s):

Admission to principal licensure program

ED 504 - Secondary Teaching and Learning Methods

3 Credit(s)

Students will examine constructivist theory and mindset specific to instructional methods or a selected content area. This class will provide opportunities for observing, standards-based lesson and unit planning, teaching lessons, and assessment for understanding in support of the student's field experience. This will include working with students individually, in small groups, and with the whole classroom.

Prerequisite(s):

Teacher Education Background Check-minimum score 1, Admission to Graduate Study in Teacher Education.

ED 505 - Inclusive and Responsive School Leadership

3 Credit(s)

This course will focus on how effective principals use inclusive and responsive leadership to promote equity among students, staff and the community. Candidates will draw upon research, theory and best-practice in diversity, equity and inclusion (DEI) to develop their skills in creating safe school environments that maximize support for student and staff well being and meaningful engagement with families and communities.

Prerequisite(s):

Admission to principal licensure program

ED 506 - Student Teaching-Elementary I

1 to 3 Credit(s)

This field experience is a required component of the post-baccalaureate teacher licensure program and provides candidates with a comprehensive experience in a public school setting. Candidates must complete all components outlined in the Student Teaching Handbook. A team of faculty supervisors and mentors will help the candidate acquire the necessary skills in the practice of building a community of learners while teaching and learning. The community of learners includes the student teacher, the cooperating mentor teacher, the university field supervisor, the building principal, and the classroom students. This student teaching experience requires a minimum of 640 hours of contact time over the course of an academic year.

Prerequisite(s):

Teacher Education Background Check Passed

ED 507 - Integrated Instruction & Assessment

3 Credit(s)

This course supports candidates in aligning their beliefs and values to develop their teaching identity. Metacognitive processes will help candidates be aware of their own motives and empower them to actively participate in their own learning as they begin to develop their art of teaching. Candidates will design a sequence or unit of study following the Understanding by Design framework which includes digging deeper into formative and summative assessments and interpreting assessment data to teach responsively. Alternative methods of facilitating instruction and assessing student performance and understanding will be investigated and implemented to increase the candidate's understanding of their students' abilities, interests, and needs. Candidate's will also discover strategies for fostering successful community partnerships.

ED 508 - School Law and Finance

3 Credit(s)

This course will provide an opportunity for administrative candidates to examine the ways in which legal and financial structures impact the operation of a school. Emphasis will be placed on legal obligations of school leaders and how these work in tandem with school funding processes to inform local policies, budgets, and administrative practices.

Prerequisite(s):

Admission to principal licensure program

ED 510 - Strategic and Ethical School Leadership

3 Credit(s)

This course will focus on how effective principals use strategic and ethical leadership to achieve strategic goals for students, educators, and themselves. Candidates will draw upon research, theory and best-practice to develop their skills in shared visioning, educator recruitment and hiring, educator retention and development, distributed leadership and leveraging strategic partnerships and resources sharing to achieve school and district goals.

Prerequisite(s):

Admission to principal licensure program

ED 511 - STEM Methods

3 Credit(s)

This course provides a background on high leverage practices such as: explaining and modeling content, eliciting and interpreting, and diagnosing patterns of student thinking for STEM. The course will also include close examination of the P-6 Colorado Science and Mathematics Content Standards. This background prepares students to develop and implement STEM learning experiences for students at the elementary grade level. Emphasis is on the integration of STEM into the broader curriculum, especially literacy, and to instruction strategies that support success for all students, including linguistically and culturally diverse learners. Topics cover interpreting student work, checking student understanding, designing units, being precise with language in STEM content, and how to use inquiry.

Prerequisite(s):

Admission to Ed Prep Program and Clear fingerprint background check

ED 512 - Inclusive and Safe Classroom Management

3 Credit(s)

This course explores the foundational principles of effective classroom instruction, behavior evaluation, and management techniques while promoting a safe and healthy school environment. This course equips candidates with critical thinking skills to design and implement successful classroom management strategies, emphasizing student achievement through effective time management, communication, and record-keeping procedures. Candidates will also develop comprehensive management plans. Candidates will examine school law and professional ethics for educators. They will gain insights into the legal and ethical frameworks that guide their roles as educators, ensuring they are well-prepared to uphold the highest standards of professionalism and integrity. The content of this course addresses health and wellness topics, including conflict resolution, mediation, nutrition, emergency protocols, and first aid within the educational setting. Candidates will design and implement SEL curricula, considering diverse student needs and crisis prevention and intervention strategies. This course is essential for educators to create a safe, healthy, and inclusive learning environment.

NOTE:

- Licensure candidates will be required to wear photo identification as they participate in this field-experience.
- Photo IDs must be obtained PRIOR to the beginning of the field-experience component.
- Field-experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Teacher Education Background Check Passed

Co-requisite(s): A pre-professional, supervised, field-based experience

ED 515 - Principal Licensure Intern I

1 Credit(s)

During this 50 hour internship, field experience under the supervision of two building principals, one of which cannot be the building where the candidate is currently working or has worked, candidates will demonstrate competencies in the subject areas of Colorado Academic Standards, schools and society.*This course will also introduce administrative candidates to Action Research Project.*Students will pick a topic of educational interest or importance to be completed by the end of the endorsement*Students will be introduced to the IRB process and research procedures*Students will choose relevant educational topic(s)*Students will submit topic for approval (faculty and university)The principal internships will supplement the research and IRB process.

Prerequisite(s):

ED 503 Minimum Grade: B

ED 519 - Culture and Communities

3 Credit(s)

This course surveys the roles of diverse cultures and communities in teaching and learning across the state of Colorado. By combining multicultural educational and community-based theory with practices of action planning around community engagement, students will develop the skills necessary to become leaders in their respective schools, while improving access to educational opportunities for all students and families.

ED 520 - Student Teaching-Elementary II

3 Credit(s)

This field experience is a required component of the post-baccalaureate teacher licensure program and provides candidates with a comprehensive experience in a public school setting. Candidates must complete all components outlined in the Student Teaching Handbook. A team of faculty supervisors and mentors will help the candidate acquire the necessary skills in the practice of building a community of learners while teaching and learning. The community of learners includes the student teacher, the cooperating mentor teacher, the university field supervisor, the building principal, and the classroom students. This student teaching experience requires a minimum of 640 hours of contact time over the course of an academic year.

Prerequisite(s):

Teacher Education Background Check Passed

ED 521 - Science of Reading

3 Credit(s)

This foundational course in reading explores literacy development and the structure of language by

1. defining the relationship between cognitive and linguistic development
2. assessing literacy development
3. nurturing the development of emergent literacy, and
4. investigating and planning instruction for the five components of reading which include phonemic awareness, phonics, fluency, vocabulary, and comprehension

Prerequisite(s):

Admission to Post Bacc Program and Clear Fingerprint Background Check

ED 522 - Pedagogical Strategies for Cultural Competence

3 Credit(s)

This is a dynamic and transformative course designed to equip future educators with the essential knowledge and skills to foster cultural competence in the classroom. Students will engage in learning that enhances their ability to use data to better understand and respond to diversity in their respective schools and communities. They will critically examine the impact of cultural values and bias on school curriculum and teacher practice, while applying strategies aimed at creating more culturally responsive experiences for diverse children. Students will also deepen their understanding and practice in working with vulnerable students and families, including those facing abuse, trauma, generational poverty and other forms of crisis.

NOTE: A pre-professional, supervised, field-based experience is a course requirement. Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component. Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to Post Bacc Program and Clear fingerprint/background check

ED 524 - Content Area Literacy

3 Credit(s)

Approaches and strategies for teaching secondary reading in various subject areas. Topics include text selection and readability, comprehension skills, study skills, and meeting needs of diverse student populations.

ED 525 - Principal Licensure Intern II

1 Credit(s)

During this 50 hour internship, field experience under the supervision of two building principals (one of which cannot be in the building where the candidate is currently working or has worked) candidates will demonstrate competencies in the subject areas of finance and school law. This course will also continue with administrative candidates Action Research Project.

Prerequisite(s):

ED 505 Minimum Grade: B
AND

ED 508 Minimum Grade: B

AND

ED 515 Minimum Grade: P

ED 528 - Instructional Leadership

3 Credit(s)

This course will prepare school leaders to assume roles as effective instructional leaders by implementing evidence-based practices in schoolwide management and improvement within a standards-based environment. Emphasis will be placed on managing curriculum and assessment in alignment with P-20 standards, supporting educator effectiveness through professional development and coaching, and supporting diverse students and families through tiered systems and responsive practices that honor diversity, equity and inclusion (DEI).

Prerequisite(s):

Admission to principal licensure program

ED 529 - Supervision and Evaluation of Instruction

3 Credit(s)

This course will prepare candidates for the supervision and evaluation of PK-12 educators to support effective instruction and enhance the academic achievement of PK-12 students. Candidates will gain an understanding best practices in observation, feedback, and using coaching modules to support educator reflection and growth. Candidates will also explore the role that potential bias can play in educator evaluation and develop skills for mitigating such bias within their practices as educational leaders.

Prerequisite(s):

Admission to principal licensure program

ED 534 - Multicultural Perspectives

3 Credit(s)

This course provides students with an overview of the role of cultural diversity in the classroom and its effect on teaching and learning. While exploring issues of race, class, culture, and power, students will develop a deeper understanding of school demographics, perspectives on teaching and learning and the interaction between pedagogy and culture. Students will gain an understanding about the effects of different social, cultural, linguistic, and cognitive experiences on learner development, the impact this can have on their choices as teachers and leaders.

ED 535 - Principal Licensure Internship III

1 Credit(s)

During this 50 hour internship, field experience under the supervision of two building principals (one of which cannot be in the building where the candidate is currently working or has worked) candidates will demonstrate competencies in the subject areas of managing curriculum, instruction and assessment, supervision for improvement of instruction and building level assessment. Each area will include reflection papers and 50 hours of logged internship during the semester.

Prerequisite(s):

ED 525 Minimum Grade: B

ED 536 - School Law and Fiscal Management**4 Credit(s)**

This course equips candidates with foundations of School Law and Fiscal Management. Candidates must demonstrate a mastery of education legal issues through the study of case law and current legal fiscal issues.

ED 542 - Literacy and Language Development II**3 Credit(s)**

This graduate course is a second course in the Literacy and Language Development sequence and focuses on reading and writing methodology and curricula in language development, content area literacy, vocabulary development, study skills, and, inferential and critical comprehension skills. Using the reading and writing processes as basic foundations, this course will provide the balanced practices related to the implementation of literacy instruction. The course will also include an extension of children's literacy (expository) as a vehicle for exploring a variety of genres. Best practices research in the reading and writing instruction will be embedded throughout the courses

ED 545 - Principal Licensure Internship IV**3 Credit(s)**

During this 150 hour internship, field experience under the supervision of two building principals (one of which cannot be in the building where the candidate is currently working or has worked) candidates will demonstrate in a culminate final interview, competencies in the subject areas of schools and society, school law, fiscal management, personnel management, curriculum and instruction, assessment, supervision and building management. During this internship, candidates will write reflection papers, one on each topic and log 150 hours of internship during the semester. This course has the accumulation of the final/capstone presentation of the students Action Research Project.

Prerequisite(s):

ED 535 Minimum Grade: P

ED 547 - Teaching, Learning, and Technology**3 Credit(s)**

This course is an introduction to the theories and applications of appropriate and effective uses of technology to achieve pedagogical goals. Content includes exploring emerging technologies, designing lessons aligned to the Colorado Essential Skills, integrating digital tools to strengthen teaching and improve student learning, identifying guidelines for designing and implementing online learning environments, comparing various theories of teaching and learning related to the design of virtual lessons/online programs, and describing effective instructional strategies for online learning. Using technology in K-12 classrooms is relevant to prepare students for success in post-secondary and workforce settings.

Prerequisite(s):

Teacher Education Background Check Passed

ED 551 - Supervise/Personnel and Programs

3 Credit(s)

This class will emphasize the relationship between teaching appraisal and the need for continuous personal professional development. Among the major topics examined in this course will be the establishment of a mentor program, a critical understanding of the clinical evaluation process, termination and non-renewal process, legal aspects of personnel and program management, management of student services programs, community involvement in program development and assessment, principles of learning, discipline and safe school policies, and an understanding of the various evaluation models found in teaching.

ED 557 - Research Methods

3 Credit(s)

Research methods is designed to provide candidates in the program with background knowledge of quantitative and qualitative research methods. The course will help candidates evaluate the appropriateness of each method when designing a research project. Candidates will develop mini- proposals for each type of research in preparation for implementing and reporting on their own research project.

ED 560 - Educational Psychology

3 Credit(s)

This course supports teachers in developing practical and effective approaches to various forms of student assessment. Students will make distinctions between formative and summative assessments. Pre-service teachers will learn various approaches to gathering student and teacher feedback to facilitate students learning and guide instruction. The course will explore grading systems that are consistent, reliable, and valid. This course has field lab hours, which are off-campus; students are responsible for their own transportation.

ED 561 - The Reading and Writing Connection

3 Credit(s)

This course delves into the art of effective teaching methods in the realms of reading and writing, highlighting the intricate link between these subjects. Furthermore, it addresses the reality that some students encounter difficulties in these areas. The course equips learners with the skills to employ a diverse range of assessments, encompassing both formal and informal approaches, to gauge a student's strengths and areas needing improvement. It will also elucidate the significance of employing various assessment methods and their impact on enhancing instruction and elevating student achievement. This course will involve lectures, discussions, and videos in a hybrid, online, or face-to-face model along with practice in the classroom. Students will complete associated hours of supervised field-based experiences (20 hours for undergraduate students) to observe and interact directly in educational environments. Field service hours are required for licensure. Documentation of verified hours will be collected as part of the undergraduate course. Students will be responsible for their own transportation to the field sites.

NOTE:

- A 20-hour, pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience.
- Photo IDs must be obtained PRIOR to the beginning of the field-experience component.
- Field-experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to Post bacc Program and Clear fingerprint/background check

ED 563 - Content Area Literacy - Secondary

3 Credit(s)

This is a graduate level course that covers approaches and strategies for teaching secondary reading in various subject areas. Topics include textbook selection and readability, comprehension skills, study skills, and meeting needs of diverse student populations.

ED 567 - Methods of Teaching Math - Secondary

3 Credit(s)

This course is designed to support the beginning secondary math teacher. Presuming a solid foundation of conceptual knowledge in the content area, the course emphasizes the development of a framework of instructional knowledge and skills to provide successful learning for all students. Students must take at least 24 semester hours of credit in math.

ED 568 - Methods of Teaching Science-Secondary

3 Credit(s)

This course provides a background in constructivist, inquiry-based science instruction for middle school and high school students that corresponds to the P-12 CO Science Education Standards. Pre-service students will gain expertise in planning standards-based science instruction, science teaching strategies and assessment bringing coherence to the activities of science teaching and learning. Utilizing materials, resources and technology that support secondary science education, pre-service teachers will learn to integrate inquiry-based, project and problem-based teaching models and collaborative strategies into long-term and daily secondary instructional plans. Emphasis is on the integration of science into the broader curriculum, especially literacy, and to instruction strategies that support success for all students, including linguistically and culturally diverse learners.

ED 577 - Student Teaching Secondary I

1 to 3 Credit(s)

This field experience is a required component of the post-baccalaureate teacher licensure program and provides candidates with a comprehensive experience in a public school setting. Candidates must complete all components outlined in the Student Teaching Handbook. A team of faculty supervisors and mentors will help the candidate acquire the necessary skills in the practice of building a community of learners while teaching and learning. The community of learners includes the student teacher, the cooperating mentor teacher, the university field supervisor, the building principal, and the classroom students. This student teaching experience requires a minimum of 640 hours of contact time over the course of an academic year.

Prerequisite(s):

Admission to the Educator Preparation Program

ED 578 - Student Teaching Secondary II

3 Credit(s)

This field experience is a required component of the post-baccalaureate teacher licensure program and provides candidates with a comprehensive experience in a public school setting. Candidates must complete all components outlined in the Student Teaching Handbook. A team of faculty supervisors and mentors will help the candidate acquire

the necessary skills in the practice of building a community of learners while teaching and learning. The community of learners includes the student teacher, the cooperating mentor teacher, the university field supervisor, the building principal, and the classroom students. This student teaching experience requires a minimum of 640 hours of contact time over the course of an academic year.

ED 579 - Special Topics

0.5 to 12 Credit(s)

Offered periodically to meet student special interests in the field.

ED 586 - Education Creation and Entrepreneurial Teachers

3 Credit(s)

The Educating Creative and Entrepreneurial Learners course will examine a variety of instructional strategies to foster engagement, understanding, and inquiry. This course will focus on student-directed and differentiated experiences to increase rigor and deepen learning.

ED 587 - Mentor Teacher Seminar I

3 Credit(s)

The Mentoring and Coaching Seminar I course is the co-requisite for ED 588 Mentoring and Coaching Internship I. This seminar course will support educators in developing their art of mentoring and coaching through intention, planning, practice, and reflection to actively engage in enhancing teaching practices and addressing systemic issues to aid in the transformation of schools.

Co-requisite(s): Admission to Mentor Endorsement Program and **ED 588**

ED 588 - Mentoring and Coaching Internship I

3 Credit(s)

The Mentoring and Coaching Internship I course is the co-requisite for ED 587 Mentor Seminar I. This internship will support educators in developing their art of mentoring and coaching through intention, planning, practice, and reflection to actively engage in enhancing teaching practices and addressing systemic issues to aid in the transformation of schools.

Grade Mode: P/F

Prerequisite(s):

Admission to Mentor Endorsement Program and **ED 587**

ED 590 - PLCs: Collaboration and Collective Responsibility

3 Credit(s)

Creating Collaborative Cultures and Collective Responsibility through Professional Learning Communities will challenge educators to alter long-held assumptions, beliefs, expectations, and habits. Candidates will examine the influences of beliefs and norms on classroom and school cultures. Additionally, candidates will explore how Professional Learning Communities can dramatically improve school performance, student engagement, and the self-efficacy of educators.

ED 591 - Capstone Project II

3 Credit(s)

In this Capstone II course educators will continue engaging in the action research process which involves collecting and analyzing data, reporting the results, and taking informed action. Educators will continue to reflect on and define their purpose for action research which may include building the reflective practitioner, making progress on school wide priorities, and building professional cultures. While planning and conducting action research, educators will respect the ethical obligations that educational researchers have and adhere to the codes and procedures involved.

ED 592 - Workshops

0.5 to 5 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

ED 593 - Education Creation and Entrepreneurial Learners

3 Credit(s)

This course is the co-requisite for ED 594 Mentoring and Coaching Internship. The Educating Creative and Entrepreneurial Teachers course will examine how relationships, learning environments, reciprocal growth, and communication skills contribute to educator effectiveness. Teachers will investigate approaches to create trusting and supportive relationships and to foster collaborative and self-directed learning environments. Throughout this course, teachers will plan, reflect, and problem-solve to generate reciprocal growth and learning for themselves and colleagues.

ED 594 - Mentor Teacher Seminar II

3 Credit(s)

This internship will support educators in developing their art of mentoring and coaching through intention, planning, practice, and reflection to actively engage in enhancing teaching practices and addressing systemic issues to aid in the transformation of schools.

Prerequisite(s):

Admission to Mentor Endorsement Program and completion of ED 587

Co-requisite(s): ED 595

ED 595 - Mentoring and Coaching Internship II

3 Credit(s)

This internship will support educators in developing their art of mentoring and coaching through intention, planning, practice, and reflection to actively engage in enhancing teaching practices and addressing systemic issues to aid in the transformation of schools.

Grade Mode: P/F

Prerequisite(s):

Admission to Mentor Endorsement Program and completion of ED 588

Co-requisite(s): ED 594

ED 598 - Capstone Project Seminar

3 Credit(s)

This seminar provides for the completion of the Capstone Research Project and requires the candidate carry out and report on an Action Research study.

ED 599 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Chair.

ED 643 - Capstone I

3 Credit(s)

In this Capstone I course, educators will investigate the action research process which involves selecting a focus, identifying research questions, conducting a review of the literature, and generating a plan. Educators will reflect on and define their purpose for action research which may include building the reflective practitioner, making progress on school wide priorities, and building professional cultures. While planning and conducting action research, educators will recognize the ethical obligations that educational researchers have and adhere to the codes and procedures involved.

ENG 79 - Special Topics

4 Credit(s)

Offered periodically to meet student special interests in the field.

ENG 92 - College Composition and Reading

3 Credit(s)

Students in this course will learn new and purposeful ways to engage with reading, writing, and thinking. Through this engagement, students will create an academic identity, which will enable them to persist through college until they complete their degree or certificate program. The course work will first focus on understanding concepts and

relationships and then move to a stronger focus on evaluating and critiquing ideas and arguments. This course is specifically designed to prepare students for the reading and writing tasks they will face in 100-level content courses.

ENG 96 - College Preparation Reading and Writing

3 Credit(s)

English 096 emphasizes critical thinking as students explore reading and writing for different academic disciplines. The course is designed to enable students who do not place into ENG-101, to build skills required for college-level reading and writing while developing writing skills which include sentence, paragraph, and essay structures. Students also focus on writing as a process of invention, exploration, organization, and development of ideas.

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 101L - Communication Arts I Lab

0 Credit(s)

This course is designed to provide students with supplemental instruction in order to facilitate the goals of ENG-101: obtaining reading, writing, and critical thinking skills necessary to produce effective college-level expository writing. The course is required for students who do not place into ENG-101 through existing pre-requisite means. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-

Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG-101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG 101 admittance will automatically be placed in the ENG-101L co-requisite lab.

Co-requisite(s): ENG 101

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T
OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

ENG 179 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

ENG 192 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

ENG 199 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

ENG 200 - College Writing Review

1 to 3 Credit(s)

Designed for referred students at the sophomore or junior level, the course emphasizes composition and writing in the disciplines. Students will polish their writing skills and develop portfolios.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T
AND

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T
AND

ENG 102 Minimum Grade: C- OR T

ENG 207 - Vocabulary

3 Credit(s)

This course is a composition course that focuses on an in-depth study of vocabulary, information literacy/multi-modal text evaluation, argument and close reading. Students will develop their skills in research, vocabulary, and critical writing and analysis.

This course is offered online only.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 210 - The Study of Literature

3 Credit(s)

This course covers fundamental literary terms and concepts, close analysis of texts, introductory literary theory, mechanics of incorporating primary and secondary sources using MLA style, and development of analytical reading and writing skills.

This course is offered through Extended Studies only.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 214 - Oral Interpretation and Performance

3 Credit(s)

Helps develop effectiveness in personal expression and abilities in the oral performance of one's own original works of fiction, nonfiction, and poetry.

ENG 226 - Introduction to Linguistics

3 Credit(s)

This course is an in-depth introduction to linguistics. It will include discussion of the syntax, phonology, morphology, semantics, and pragmatics of English. Additionally it may include a basic introduction to issues such as historical linguistics, first and second language acquisition, psycholinguistics, sociolinguistics, and other issues relevant to the field.

Prerequisite(s):

ENG-101 Minimum Grade: C- OR T

ENG 227 - Introduction to Creative Writing

3 Credit(s)

Students write and read poetry, fiction, creative nonfiction, and drama, develop aesthetic standards, and evaluate their writing and that of their classmates. Course emphasizes the writing process, including strategies for invention and revision, and presents ideas for teaching creative writing.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

ENG 279 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

ENG 290 - Introduction to Major Authors

3 Credit(s)

This course introduces students to the study of major figures in fiction, dramatic literature, and poetry. Author(s) will be selected by instructor.

This course is offered through Extended Studies only.

ENG 292 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

ENG 299 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

ENG 301 - The Graphic Novel

3 Credit(s)

This course will discuss the form, history, context, and influence of graphic novels.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

ENG 302 - Creative Communication in Classroom

3 Credit(s)

This course is designed to develop proficiency in oral communications for prospective teachers. Through instructor and student led discussions, small group work, in-class exercises and creative activities, the class will explore the role of communication in the classroom as well as everyday life. There will be a strong focus on the creative uses and development of oral communication skills for both teachers and students.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

ENG 303 - Film Studies

3 Credit(s)

This course will examine cinema through the lenses of cinematic and literary theory while exploring the relationship between history and culture and the visual text. The course approach may include film adaptation, film theory, or film as literature.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

ENG 304 - Literature Traditions for Teachers

3 Credit(s)

This course explores literary tradition and will provide students with the tools necessary to integrate literature in the total instructional program. The course will be divided into sections focused on the genres of fiction, poetry, and drama.

Prerequisite(s):

ENG-101 Minimum Grade: C- OR T

ENG 306 - English Grammar for Teachers

3 Credit(s)

Fundamentals of English grammar and a brief, non-technical history of the language, geared toward future educators in the Rural Educational Access Program (REAP) and similar distance programs. Students will review basic grammatical elements.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

ENG 307 - The Vikings**3 Credit(s)**

This course will examine the literary legacy of the group of northern European peoples known as Vikings. It will discuss their major literary forms that may include sagas, eddas, saints lives, etc. At the instructors discretion this class may focus on topics such as linguistics, literature, and/or modern adaptation.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

ENG 309 - British Literature I: Monsters and Magic**3 Credit(s)**

This course is the first of a two-course historical survey of British Literature from the sixth to the twenty-first centuries. English 309 starts with the pre-Norman writers and ends in the mid eighteenth century. Eng. 310 begins with the eighteenth century and ends with contemporary authors. This combination of courses will lay the foundation for more advanced, focused study of specific authors and periods in the British literary tradition. Neither 309 or 310 will assume the other as a prerequisite.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 310 - British Literature II: Bodies and Empire**3 Credit(s)**

This course is the second of a two-course historical survey of British Literature from the sixth to the twenty-first centuries. English 309 starts with the pre-Norman writers and ends in the mid eighteenth century. Eng. 310 begins with the eighteenth century and ends with contemporary authors. This combination of courses will lay the foundation for more advanced, focused study of specific authors and periods in the British literary tradition. Neither 309 or 310 will assume the other as a prerequisite.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 311 - World Literature I**3 Credit(s)**

Selected masterpieces of world literature from ancient times to 1700. Includes some works from outside the Western tradition.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 312 - World Literature II

3 Credit(s)

Selected masterpieces of world literature from 1700 to the present. Includes some works from outside the Western tradition.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 313 - Fantasy & Sci-Fi Literature

3 Credit(s)

This course will consider major texts in the genres of sci-fi and fantasy literature.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

ENG 314 - Adolescent Literature

3 Credit(s)

A course designed to acquaint prospective teachers of English with representative literature of adolescence.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 315 - Children's Literature

3 Credit(s)

Survey of literature for children (ages 0-14) from ancient times to the present. Evaluation and use of books and other resources in the home, in public libraries, and in school media centers.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 316 - Methods/English in Secondary School

3 Credit(s)

A study of effective teaching methods used in presenting grammar, composition, and literature to junior and senior school students. Usually taken as part of the Education licensure senior block. Students should have a strong preparation in upper-division English content courses. Admission to the Teacher Education Program is required. This course must be taken along with other courses designated in the senior block. Students wishing to take the course who do not meet the above requirements must obtain instructor permission.

Prerequisite(s):

ED 200 Minimum Grade: C OR T

AND

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

AND

ENG 226 Minimum Grade: C- OR T

AND

Admission to the Educator Preparation Program

AND

Teacher Education Background Check Passed

AND

ED 220 Minimum Grade: T

ENG 320 - Literature and Sexualities

3 Credit(s)

An examination of a variety of sexual identities and expressions as portrayed in literature.

ENG 322 - Interactive Storytelling

3 Credit(s)

This course is a survey of forms of interactive literature encompassing media (e.g. video games, interactive films, collaborative stories, role-playing games, gamebooks, new intersections of interactive art and technology). This course will include strategies for creating interactive stories with the goal of broadening and developing the students' own skills in generating or facilitating interactive stories.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

AND

ENG 227 Minimum Grade: C- OR T

ENG 323 - Introduction to Memoir

3 Credit(s)

Introduction to Memoir explores the genre of memoir as a significant subgenre of creative non-fiction. Students will learn the history, key elements, and different types of memoir including the hybrid memoir, explore and analyze complete memoirs and memoir excerpts written by culturally diverse writers, and begin the process of writing their own memoir.

Prerequisite(s):

ENG 102 Minimum Grade: C OR T
OR

ENG 227 Minimum Grade: C OR T

ENG 324 - The Prison Memoir

3 Credit(s)

The Prison Memoir is designed to help students explore and understand how well-crafted memoirs written about prisons and the incarcerated life are a significant contribution to literature and the story of humanity. In addition to reading prison memoirs and excerpts written by men and women from diverse cultures, situations, and perspectives, students will study the craft of memoir as a creative writing genre with its own challenges and problems, as well as begin the process of writing their own memoir. Although this course will have special appeal to prisoners, it is open to any student wishing to understand the incarcerated life as told by those who have lived it, or are still living it.

Prerequisite(s):

ENG 102 Minimum Grade: C OR T
OR

ENG 227 Minimum Grade: C OR T

OR

ENG 323 Minimum Grade: C OR T

ENG 325 - Women and Memoir

3 Credit(s)

Women and Memoir is designed to help students explore and understand the recent explosion of women's memoir as a significant yet historically underrepresented contribution not only to literature but also to the story of humanity and its treasure house of collective wisdom. In addition to reading culturally and ethnically diverse woman-authored memoirs and excerpts, students will study the craft of memoir as a creative writing genre with its own challenges and problems, and will begin the process of writing their own memoir in order to tell their unique and diverse stories. Although this course will have special appeal to women, it is open to any student.

Prerequisite(s):

ENG 102 Minimum Grade: C OR T

OR

ENG 227 Minimum Grade: C OR T

OR

ENG 323 Minimum Grade: C OR T

ENG 326 - Creative Writing Poetry Workshop I

3 Credit(s)

This course will teach students to develop their craft and creativity in the genre of poetry. Students submit original poems weekly, read selected works of contemporary, published poetry, and critique their own work and that of their classmates. Students practice revision and submit revised work in a final portfolio of at least 10 pages.

Prerequisite(s):

ENG 227 Minimum Grade: C- OR T
AND

ENG 210 Minimum Grade: C- OR T

OR

ENG 203 Minimum Grade: C- OR T

ENG 327 - Fiction Workshop I

3 Credit(s)

This course will teach students to develop creativity in the genre of prose fiction (short story). Students will submit their original writing, read works of published fiction, and critique their own work and the work of their classmates.

Prerequisite(s):

ENG 227 Minimum Grade: C- OR T

ENG 328 - Creative Nonfiction I

3 Credit(s)

This course covers techniques in nonfiction writing encompassing a variety of styles, forms, and topics, encouraging exploration of the genre's innumerable possibilities while developing the student's personal and critical theories of writing.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T
AND

ENG 227 Minimum Grade: C- OR T

ENG 329 - Women and Drama

3 Credit(s)

A survey of the history and literature associated with women in theatre. The course will include the history of actual women involved in the evolution of western and eastern theatre traditions as well as playscripts which deal with the subject of women's issues. There will be a strong emphasis on the incorporation of contemporary dramatic theory, especially feminist theory, to analyze dramatic texts. The course will cover Greek through Contemporary Drama.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 350 - Literary Movements

3 Credit(s)

An examination of a literary movement, such as Medieval, Renaissance, Victorian, Romantic, Modern, or Postmodern literature. Course content defines and investigates the movement.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

ENG 355 - The Novel

3 Credit(s)

Selected novels written between the 18th century and the present.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 356 - The Russian Novel

3 Credit(s)

A study of major Russian novels.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 357 - Studies in Linguistics

3 Credit(s)

This course is an in-depth study of topics related to linguistics. These topics may include historical linguistics, first and second language acquisition, psycholinguistics or sociolinguistics.

Prerequisite(s):

ENG 226 Minimum Grade: C- OR T

ENG 358 - Bible as Literature

3 Credit(s)

This course analyzes the Bible as literature, examines the use of biblical motifs, imagery, and themes in post-biblical texts, and explores the First Amendment challenges confronting those who plan to teach Bible-as-literature courses in the public schools.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 359 - Mythology

3 Credit(s)

An in-depth study of world mythology to familiarize students with major cultural and literary traditions.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

ENG 363 - Professionalization and Publishing

3 Credit(s)

Students will practice writing at an intensive level beyond the research or argument papers they wrote in English 102, and beyond the literary critiques they have written for literature courses. Instruction will focus on real-world skills and practical applications for writing. The course will also discuss writing-related career paths and professionalization techniques. Except for the senior capstone course, the writing here includes the ultimate writing tasks of the students undergraduate career. It is expected that several items from this course will contribute to the students' senior portfolio.

Prerequisite(s):

Junior or Senior Standing

ENG 365 - Ethnic and Minority Literature

3 Credit(s)

A study of the literature of Native American, African-American, Chicano, and other American ethnic and minority groups.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

ENG 375 - Chicano Literature**3 Credit(s)**

This course explores the canon of Chicana/o Literature and its multiple influences. Specifically, the course deals with the cultural, political and societal climates that necessitated the literature. The course will focus on oral tradition and its evolution into other genres of Chicana/o Literature (poetry, fiction, & essay). Chicana/o Literature (poetry, fiction, & essay).

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

ENG 379 - Special Topics**1 to 6 Credit(s)**

Offered periodically to meet student special interests in the field.

ENG 380 - Western Literature: Trails, Tales, and Gold**3 Credit(s)**

This course is a survey of literature written in and about the American West. The course focuses on women, Native, and non-white ethnic/immigrant voices, providing a counter-narrative to the traditional approach to the Western.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

ENG 385 - Women and Literature**3 Credit(s)**

A survey of literature written by women beginning with Sappho and focusing on the western tradition. An introduction to feminist literary criticism.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

ENG 392 - Workshop

0.5 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

ENG 394 - American Literature I: Discovery and Colonization

3 Credit(s)

Several of the figures studied in this class-such as Christopher Columbus, Anne Bradstreet, Hector St. Jean de Crevecoeur, and Thomas Jefferson-are frequently referenced in contemporary discussions of the American "character," yet are poorly understood by most. A basic knowledge of the literatures of colonial America and the early United States deepens students' understanding of these figures, and hence of American history, culture, politics, and identity. This course complements American Literature II and is required of all English liberal arts and secondary education majors.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 395 - American Literature II: Marginalized Voices

3 Credit(s)

Survey of American literature from 1865 to the present. Thematic emphases include the development of African American, Native American, and feminist literary traditions; industrialization, urbanization, and the closing of the frontier; realism, naturalism, and modernism; the Lost Generation; and the Sixties and postmodernism.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 399 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 403 - Shakespeare

3 Credit(s)

Combines study of comedies, histories, and tragedies.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

ENG 407 - Chaucer: Epics and Dirty Jokes

3 Credit(s)

Concentrates mainly on the Canterbury Tales, but covers other major works as time permits.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

ENG 409 - Medieval/Renaissance Literature

3 Credit(s)

Survey of Medieval and/or Renaissance literature with emphasis on specific authors and/or topics.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

ENG 411 - Writing the Environment

3 Credit(s)

This course covers techniques in nonfiction and fictional environmental writing encompassing a variety of styles, forms, and topics, encouraging exploration of the genres innumerable possibilities while developing the students' personal and critical theories of writing.

ENG 413 - World-Building: SciFi/Horror/Fantasy

3 Credit(s)

Students will further develop their craft and creativity in the genres of science fiction, fantasy, and horror through developing all elements of fiction and adding research and world-building. Students will submit their original writing, read works of published speculative fiction, science fiction, fantasy, and horror, and critique their own work and the work of their classmates.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

AND

ENG 227 Minimum Grade: C- OR T

AND

ENG 327 Minimum Grade: C- OR T

ENG 416 - The Teaching of Writing

3 Credit(s)

A study of theories about writing through reading, research, reflection, writing and practice. Students will practice the teaching of writing and develop instructional strategies and philosophies for all levels including college.

ENG 420 - Environmental Literature

3 Credit(s)

This course is a survey of environmental literature poetry, fiction, and non-fiction spanning from the beginning of the conservation movement with Thoreau through the modern environmental movement with Carson, and to the present day with a focus on sustainability and the Southwestern United States with attention paid to the environmental impacts on indigenous populations and minority groups and authors, particularly Latinx. Students will analyze, criticize, reflect, and write about the reading, but also reflect upon field visits to farms, ranches, monuments, and parks throughout the region.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

ENG 425 - English Syntax

3 Credit(s)

A descriptive study of English syntax in the framework of generative-transformational grammar, with emphasis on theoretical approaches developed in the 1980's and later.

Prerequisite(s):

ENG 357 Minimum Grade: C- OR T

ENG 426 - Poetry Workshop II

3 Credit(s)

This course will teach students to further develop their craft and creativity in the genre of poetry. Students will submit original poems weekly, read selected works of contemporary published poetry, and critique their own work and the work of their classmates. They will practice revision and submit revised work in a portfolio of at least 15 pages.

Prerequisite(s):

ENG 326 Minimum Grade: C- OR T

ENG 427 - Fiction Workshop II

3 Credit(s)

This course will teach students to further develop their craft and creativity in the genre of prose fiction (short story). Students will submit their original writing, read works of published fiction, and critique their own work and the work of their classmates.

Prerequisite(s):

ENG 327 Minimum Grade: C- or T

ENG 428 - Creative Nonfiction II

3 Credit(s)

This course covers advanced techniques in nonfiction writing begun in ENG 328 as the student assembles a portfolio of work suitable for application to graduate programs.

Prerequisite(s):

ENG 328 Minimum Grade: C- OR T

ENG 443 - 20th Century American Novel

3 Credit(s)

Selected American Novelists 1900 to present.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 450 - Romantic and Victorian Literature

3 Credit(s)

Selected works of major English writers of the Romantic and Victorian periods.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 458 - Reading Poetry

3 Credit(s)

A study of poetry from ancient to contemporary with an emphasis on form and technique.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 460 - Reading Short Prose

3 Credit(s)

A study of fiction and nonfiction short prose forms with an emphasis on authors writing in the English and American traditions, but including works in translation, and with special attention to form and technique.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 465 - Modern Theatre

3 Credit(s)

Study of theatre history and the diverse trends in dramatic literature during the 19th century and early to mid-20th century, as viewed through the works of the major playwrights of Europe and the United States. The focus of the course will be placed equally upon history, script analysis, and dramaturgy.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

ENG 470 - Classical Theatre

3 Credit(s)

A chronological study of the major periods of theatre history and dramatic literature, from the emergence of Greek Tragedy in the 5th century B.C. to English Restoration Comedy. The focus of the course will be placed equally upon history, script analysis and dramaturgy.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 472 - Contemporary Theatre

3 Credit(s)

An inclusive study of theatre history and dramatic literature from 1965 through the present day with a specific emphasis on multicultural theatre. The focus of the course will be placed equally upon history, script analysis, and dramaturgy.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

ENG 479 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

ENG 480 - Contemporary Literary Theory

3 Credit(s)

Study of the developments of literary critical theory and practice from the beginning of the 20th century to the present. Some emphasis on important earlier theories as they relate to contemporary developments.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 490 - Major Authors

3 Credit(s)

Study of major figures in fiction, dramatic literature, and poetry. Author(s) will be selected by instructor. Students may repeat this course for credit if the course material is significantly different from the previously taken course. Students should consult with their advisor about course selection.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 492 - Workshop

0.5 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

ENG 495 - Senior Seminar

3 Credit(s)

This course is designed to be the academic capstone experience for all students who are majoring in English/Liberal Arts and to prepare students for graduate studies in the field. Subject matter will vary depending upon the instructor's specialization or area of interest. All seminar students will write a major research essay that reflects the student's mastery of library usage, research methodology, breadth of knowledge, critical thinking, and writing ability.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 497 - Capstone Writing Workshop

3 Credit(s)

This course is designed as a capstone for all Creative Writing majors. The content of the course will focus on organization, editing, and honing of a final writing project.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

AND

ENG 214 Minimum Grade: C- OR T

OR

THTR 213 Minimum Grade: C- OR T

AND

ENG 227 Minimum Grade: C- OR T

AND

ENG 326 Minimum Grade: C- OR T

AND

ENG 327 Minimum Grade: C- OR T

AND

ENG 328 Minimum Grade: C- OR T

ENG 499 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

ENG 510 - Study of Literature and Literary Theory

3 Credit(s)

The course will focus on the most recent and relevant critical frameworks, and such lenses will be used to analyze works of literature from the classical period to today. Recent works of fiction, poetry, drama, and creative nonfiction will provide core readings, including works that would appeal to adolescent audiences. Some texts may be read in translation. Close reading skills will be applied. While this course focuses primarily on English content, issues related to the teaching of literary studies and analysis will be covered.

ENG 511 - Study of Rhetoric and Composition

3 Credit(s)

Advanced study of composition and rhetorical theory, its history, and practice of teaching writing, with special emphasis on teaching composition to diverse students at various levels (e.g., middle school, high school and college freshman).

ENG 512 - Contentious Literature in American Public Schools

3 Credit(s)

This course investigates the politics at work in banning and challenging literature in the American public school system and offers middle and high school English teachers that skills necessary to teach and defend the pedagogical value of "contentious" literature.

ENG 515 - Teaching English Secondary Classroom

3 Credit(s)

This course is designed to provide a conceptual framework for aligning curriculum to State and Common Core Standards. Students will explore an array of methods for appropriately assessing the degree of student understanding, knowledge, and skill while meeting the demands of state and national standards. The course will include practical analysis and application of data to drive curriculum and meaningful assessment.

ENG 516 - Methods/Teaching English-Secondary

3 Credit(s)

A study of effective teaching methods used in presenting grammar, composition, and literature to junior and senior high school students.

ENG 517 - Understanding Language

3 Credit(s)

This course explores the nature of language primarily through an exploration of English structures. Those structures include sound patterns (phonetics and phonology); word classes (lexicon); word parts (morphology); and sentence patterns (syntax). Other topics include bilingualism (and issues pertaining to bilingual education); the varieties of English nationally and internationally; a social history of English and the expansion of English; first and second language development; methodologies of teaching ESL; and language death.

ENG 563 - Theory and Performance of Dramatic Language

3 Credit(s)

This course examines both historical and contemporary dramatic and performance theories with a focus on the application to the creative study of plays in the classroom.

ENG 565 - Issues in Video Production/Social Media

3 Credit(s)

The ability to use video equipment, including video software, and social media successfully is increasingly a vital skill in today's society. To that end, in this course students will learn how to use social media and video production equipment/software, how to instruct others in their uses, and the major issues facing students regarding social media and video on the Internet.

ENG 567 - Media Literacy

3 Credit(s)

With the proliferation of media in our society, it is important that informed citizens of all ages understand the socialization role of media in US society. To that end, this course prepares students for discussions about the media, understanding its ideological, cultural, sociopolitical role and influence, with the goal of having these discussions beyond the classroom so that students and those they encounter can make conscious, informed decisions about the messages in the media.

ENG 570 - Advanced Readings

3 Credit(s)

This individualized course allows the student, working one-on-one with a professor, to pursue readings and advanced, in-depth study into a particular author's work, a genre, or a literary period, or to pursue advanced, in-depth study into an area of composition or an area of theatre production or performances. This course may be repeated to allow the student to pursue study in another area.

ENG 574 - Special Topics Varied Literature

3 Credit(s)

This course will vary annually in the spring semester. Each 3-credit offering will explore a new area of literature or composition.

ENG 579 - Special Topics

0.5 to 3 Credit(s)

Offered periodically to meet students' special interests in the field.

ENG 592 - Workshop

0.5 to 6 Credit(s)

Short course offered on an intermittent basis to meet the needs of special constituents.

ENG 595 - Thesis

3 Credit(s)

This course is the culminating experience for the MA program in which students demonstrate mastery of the discipline by producing an acceptable Master's Thesis.

ENG 599 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Chair.

FOOD 100 - Perspectives on Food

3 Credit(s)

This course is an exploration of the multitude of roles that food plays in the world. Each class will consist of a discussion of food through a different lens, such as culture, history, economy, nutrition, power, medicine, and ecology. The course will be highly discussion based and students will be challenged to explore their own personal relationship with food. Grades will be determined based on class participation, weekly reading reflections, a blog-post, and a food sharing presentation in which you will explore the history, culture and personal meaning of a specific dish.

FOOD 200 - U.S. Food Systems

3 Credit(s)

This course will provide an overview of the U.S. Food System, including the policy, agricultural, and cultural history that has led us to the food system that we have today. The course will include the following topics: the role of policy in shaping the food system; the history and current state of federal governmental food and agricultural programs; food as an industry (production, processing, distribution, sales, advertising, and consumer behavior). We will explore the implication of our current system for health, communities, and the environment.

FOOD 250 - Community Food Systems

3 Credit(s)

In this course, students will study local food systems, using the San Luis Valley as a case study for a broader understanding of the role of local food systems in community vitality and health. We will explore: the pathways of food from the farm, to the distributor, to consumer, and finally as waste; inequalities in food access within communities; strategies for creating a resilient and sustainable local food system; and the major players in the local food system. Students will be provided with many examples of organizations using creative solutions to food system problems.

Prerequisite(s):

FOOD 100 Minimum Grade: C-
AND

FOOD 200 Minimum Grade: C-

FOOD 300 - Food Lab I

4 Credit(s)

This course prepares students for careers in which they will be working with food and covers basic knowledge and skills related to food safety, growing and harvesting food, procuring food, preparing food, and planning menus and educational content. We will spend time working in the Farm Park, helping with tasks and harvesting. In the classroom and kitchen, we will learn basic food preparation, seasonal and local foods, nutritional evaluation of foods, procurement, menu planning, and nutrition education.

FOOD 350 - Food Lab II

4 Credit(s)

Food lab is a hands-on upper level course for Food Studies majors to learn about food from Farm to Table. Food Lab I & II should be taken in consecutive Spring and Fall semesters, as the Food Lab I students will ideally plant a garden to be harvested by the students in Food Lab II, the following fall. Even if not possible the courses will still be building upon each other. In Food Lab II, students in the class will work together to take care of the garden and harvest crops using sustainable practices. If this is not possible, students will still learn various skills for preparing the land for the harvesting season, taking care of plants, and learning various gardening skills through experiences working at other farms. Grades will be determined by attendance and participation, as well as a midterm reflection and a final project, paper, or exam. Students will also begin learning cooking techniques and styles, getting to practice and try food and skills from different parts of the world.

Prerequisite(s):

FOOD 300 Minimum Grade: C-

FOOD 400 - Food Studies Internship I

3 Credit(s)

This is the first internship for the Food Studies interdisciplinary degree. This course does not include regular classroom instruction, but is an internship in a food-related organization. The purpose of this internship is for the student to learn how the organization functions, its mission and principles, and to provide assistance to the organization.

Prerequisite(s):

FOOD 250 Minimum Grade: C-

FOOD 450 - Food Studies Internship II

3 Credit(s)

This is the second internship for the Food Studies interdisciplinary degree. This course does not include regular classroom instruction, but is an internship in a food-related organization. The second semester of internship must include a project for which the student has primary responsibility, to be determined by the internship advisor, in collaboration with the student. The second internship may be completed at the same organization as the first internship or with a new organization.

Prerequisite(s):

FOOD 400 Minimum Grade: C-

FOOD 498 - Food Studies Capstone

3 Credit(s)

This is the capstone course for the Food Studies interdisciplinary degree. This course includes regularly scheduled meetings with the instructor and significant independent work on a self-guided project, chosen by the student, in collaboration with their advisor.

Prerequisite(s):

FOOD 400 Minimum Grade: C-

FYS 000 - Transfer Seminar: Your Adams Story

0 Credit(s)

This course is specifically designed for incoming transfer students to Adams State University. The focus of this special First-Year Seminar (FYS) course is to provide transfer students with an overview of the university, the Adams Experience, and engage students within a unique seminar that supports a successful transition. Students will integrate their prior learning into their ASU experience through creation of an ePortfolio and an engagement project parallel to FYS 101.

FYS 101 - First Year Seminar

1 to 3 Credit(s)

First-year students launch into the Adams Experience through a First-Year Seminar (FYS) course. FYS will engage students by creating habits for success, learning to navigate college life, and build skills for success. Each FYS will focus on a unique topic that will be the theme of course discussions, experiences, and assignments. FYS will develop academic and social capital and support a successful transition into higher education, instill lifelong learning, and reinforce student persistence.

FYS 102 - First Year Seminar

New students launch into the Adams Experience through the First-Year Seminar (FYS). The FYS will encourage students to explore issues that matter to them, consider big questions, share their ideas, challenge assumptions, and learn to appreciate different points of view. Each FYS will focus on a unique topic that will be the theme of course discussions, experiences, and assignments. The FYS will develop students knowledge, skills, and confidence to begin their own journey through the Adams Experience. FYS-102 is the first course in a two-course series of first-year seminars designed for specific programs. All first-time full-time students must complete 3 credit hours of FYS.

FYS 103 - First Year Seminar

This is the second course in the two-course series of first-year seminars. During this course, students will be immersed in a unique topic of inquiry that will be the theme of course discussions, experiences, and assignments. Students will explore relevant issues, consider big questions, challenge their own assumptions, and learn to appreciate different points of view. Through class discussions, readings, collaborative projects, presentations, and guest speakers/field trips students will continue to develop college level critical thinking.

Prerequisite(s):

FYS 102 Minimum Grade: C-

FYS 179 - Special Topics

Special Topics course offered for students with specific interests throughout the year.

FYS 201 - Transfer Seminar: The Adams Experience

1 Credit(s)

This course is specifically designed for incoming transfer students to Adams State University. The focus of this special First-Year Seminar (FYS) course is to provide transfer students with an overview of the university, the Adams Experience, and engage students within a unique seminar that supports a successful transition. Students will integrate

their prior learning into their ASU experience through creation of an ePortfolio and an engagement project parallel to FYS 101.

FYS 279 - Special Topics

Special Topics course offered for students with specific interests throughout the year.

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T
OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

GSCI 112 - Earth History

4 Credit(s)

Introduction to the geological evolution of the earth through time using basic principles of stratigraphy and paleontology. Laboratory work includes identification and classification of fossils and correlation of sedimentary environments.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

GSCI 123 - Geology of the San Luis Valley

1 Credit(s)

This course explores the local geology of the San Luis Valley and surrounding areas on day trips. Course is offered during the fall or spring semester. Outdoor activity required.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 201 - Introduction to Cartography and GIS

3 Credit(s)

This course will introduce students to the core concepts of Geographic Information Systems (GIS) and the importance and relevance of GIS in today's world. Students will learn what GIS is, what it is used for, and how to perform basic and core tasks involving GIS analysis. An objective is to help students develop the ability to think critically about cartographic processes and representations as well as develop their skills in creating maps. Students are expected to have basic computer proficiency prior to enrolling in this course.

GSCI 212 - Natural Resource Management on Public Lands

3 Credit(s)

This course will examine public lands management from both a theoretical and descriptive perspective. The major political forces affecting public lands, and the specific details of energy policy, forests, rangelands, national parks, and wildlife on public lands are discussed.

Prerequisite(s):

GSCI 109 Minimum Grade: C-
OR

BIOL 330 Minimum Grade: C-

GSCI 300 - World Geography

3 Credit(s)

The course examines human or cultural geography with a global perspective. It uses a topic centered approach. It is intended to give the student an appreciation of the interaction between physical geography, environment, and cultural practices.

GSCI 307 - Bio-Geography

3 Credit(s)

The course builds upon topics introduced in the introductory physical geography and general biology courses and synthesizes concepts addressed in other upper-division courses dealing with vegetation science, climatology, soil, historical geology, ecology, and evolution to explain patterns and processes influencing past and present distributions of organisms.

Prerequisite(s):

GSCI 109 Minimum Grade: C-
AND

BIOL 209 Minimum Grade: C-

GSCI 311 - Climatology

4 Credit(s)

This course examines the global patterns of climate and the processes that shape them. Particular attention is given to climate change mechanisms (past & present), human-induced changes to the climate system, and likely future climates. Field- and computer-based methodology relevant to the field of climatology is also emphasized.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 321 - Geomorphology with Environmental Applications

4 Credit(s)

This course is a study of the processes that control the development of the materials and landforms found on the earth's surface. An emphasis is placed upon the hydrologic and variables in generating landforms and human interactions with these formative processes. Field trips, topographic map, and aerial photo exercises are required. Offered spring semester of even-numbered years.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 330 - Nature and Properties of Soils

4 Credit(s)

This course analyzes soils as natural bodies and managed resources, focusing on impacts of landforms, hydrology, nutrients, and organisms on soils. The laboratory includes analysis of soil patterns, methods of sampling, and techniques of determining physical and chemical properties of soils. Course includes three hours of lecture and two hours of laboratory per week.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T
AND

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

GSCI 331 - Macro and Optical Mineralogy

5 Credit(s)

This course provides a systematic identification of natural minerals and gemstones utilizing their physical, crystallographic, and optical characteristics.

Prerequisite(s):

GSCI 112 Minimum Grade: C- OR T

GSCI 334 - Igneous/Metamorphic Petrology

5 Credit(s)

The study of the occurrence and origin of igneous and metamorphic rock. Laboratory exercises will emphasize the petrographic analysis of both macro and optical components of igneous and metamorphic rocks. Course includes field trips. Course is offered Spring semester of even-numbered years. GSCI-334 is a complimentary course with GSCI-343 Sedimentology and Stratigraphy

Prerequisite(s):

GSCI 331 Minimum Grade: C- OR T

GSCI 343 - Sedimentology and Stratigraphy

4 Credit(s)

This course studies the origin and occurrence of sedimentary materials and their vertical succession. Sediment dynamics and structures will be explored within various depositional settings. Course includes required field trips. GSCI-343 is complementary to Igneous and Metamorphic Petrology (GSCI-334).

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 350 - Geology Excursion

2 Credit(s)

This course centers around a field trip experience of approximately one week, generally during spring break, to different areas of the southwestern U.S. This course may be taken only twice for credit. An additional fee is required. Camping and outdoor activity is required.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 371 - Structural Geology

4 Credit(s)

This course focuses on the recognition, representation, and significance of geologic structures of the earth's crust. This

course includes occasional required field trips and is offered fall semester of even-numbered years.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 411 - Mountain Geography

3 Credit(s)

This class focuses on the physical science of mountains, including the origin of mountains as well as the climatic, geomorphic, and ecological processes and patterns found in mountain environments. The impact of mountains on human settlement and activities are discussed, as well as how humans have impacted mountain environments.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 420 - Remote Sensing

4 Credit(s)

The course considers acquisition and interpretation of remote sensed environmental data, theory and sensors, and manual and computerized interpretation methods.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

AND

GSCI 201 Minimum Grade: C- OR T

GSCI 421 - Glacial and Periglacial Geography

3 Credit(s)

This course will examine geomorphological aspects of the cryosphere, giving emphasis to the study of landforms and sediments created by ice sheets and periglacial processes both past and present. Where relevant, the applied aspects of glacial and periglacial geomorphology will be given specific attention.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 433 - Environmental Geochem Model

3 Credit(s)

This lecture and computer modeling course examines the interaction of geological materials with the surface environment. Processes of transport and fate of contaminants and pollutants from natural and man made sources will be addressed, as well as the geology of some natural resources that contribute pollutants.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

AND

CHEM 131 Minimum Grade: C- OR T

OR

CHEM 132 Minimum Grade: C- OR T

GSCI 440 - Groundwater

4 Credit(s)

This course explores the groundwater system and its relationship with surface water systems of rivers, lakes, and oceans.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620 and GSCI 112 Minimum Grade: C- or T

GSCI 450 - Senior Capstone in Geosciences

2 Credit(s)

Capstone experiences integrate material learned in the major through independent research and creative thinking by students. The capstone experience may include a primary research experience (such as field project or internship) or a substantive exploration of a geoscience topic. Emphasis is also placed on effective writing and oral presentation skills.

GSCI 462 - Geography and Geology of World Regions

3 Credit(s)

This field course, offered during winter, spring, or summer break, explores regions of the world through a geographic and geological perspective. A different region is studied every other summer. Focus is placed on understanding the structural geology, tectonic landscape, surficial processes, and human-environment interactions of the region. Students will gain an intimate knowledge of world regions, landscapes, and cultures. Examples of world regions include the Northern Alps, Iceland, Great Britain and Newfoundland, and Japan.

GSCI 479 - Special Topics

1 to 4 Credit(s)

Offered periodically to meet student special interests in the field.

GSCI 488 - Problems in Geosciences

2 Credit(s)

This course provides opportunities for laboratory or field research into problems of special interest. Fall and spring semesters upon sufficient interest.

GSCI 495 - Field Geology

6 Credit(s)

This course teaches fundamental applications of traditional geological field mapping methods and recognition of geological features in an outdoor setting. Report writing, presentations, and planning for field work are also covered. Modern technology is included whenever appropriate to learning field-based methods.

GSCI 499 - Independent Study

0.5 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By permission of instructor and approval of the department chair.

HCA 179 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

HCA 279 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

HCA 303 - Trends and Issues in Health Care

3 Credit(s)

This course is an introductory Health Care Administration course and will expose the student to the industry and its significant elements and trends of the current health care environment.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

HCA 305 - Health Care Marketing

3 Credit(s)

This course involves an analysis, evaluation, and implementation of marketing strategies within health care and managed-care environments. Designed to develop skills in segmenting customer and medical markets, brand products

and services, enhance a communication strategy to the consumer, and develop pricing approaches. Methods and models of marketing fundamentals will be introduced.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 311 - Health Care Law and Ethics

3 Credit(s)

This course presents an overview of the legal and ethical issues faced by health care consumers, practitioners, and administrators. The course will introduce students to the legal aspects of health care at the federal, state, and local levels. Topics covered will include criminal and civil claims against health care providers, corporate and individual liability, and legal and ethical decision-making, individual liability, and legal and ethical decision-making. HCA 361 Health Care Administration. Instructor permission.

Prerequisite(s):

BUS 211 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 312 - Health Care Med Terminology

3 Credit(s)

This course will focus on the components of medical terms and the methods for analysis of word definitions. The emphasis will be on learning to define, pronounce, and spell medical terms using prefixes, suffixes, roots, and combining forms related to the anatomy and physiology of the human body. The course will include an introduction to operative, diagnostic, therapeutic, and symptomatic terminology of all body systems.

HCA 325 - Health Care Informatics

3 Credit(s)

This course is a study of record keeping practices in the hospital and physician's office. Emphasis is placed in hospital and medical staff organization, patient record content, procedures in filing, numbering and retention of patient records, quantitative analysis, release of patient information, forms control and design, indexes and registers, reimbursement, regulatory and accrediting agencies, and alternate health care delivery systems. Instructor permission required.

Prerequisite(s):

BUS 120 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 363 - Health Care Finance

3 Credit(s)

This course is devoted to the practical aspects of finance in health care, an examination of current practices in financial management of health care organizations, and managerial applications to specific problems facing health care managers. The first part of the course will focus on an overview of health care finance, managerial accounting, and financial analysis. The second part will continue with managerial accounting and financial analysis and will concentrate on the various tools used in financial management. Emphasis is placed on unique issues and concerns that result from the regulatory framework of health care organizations. At the conclusion of this course, the student should be able to discuss the financial structure, market forces, controls and techniques used in the health care management field, be able to read and analyze financial statements and budgets and have the skill to interpret financial and operating performance.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 379 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

HCA 381 - Health Care Admin Internship

3 Credit(s)

The Health Administration Internship provides the students the opportunity to gain practical experience and integrate classroom knowledge and theory in an administrative setting within the health care industry.

Prerequisite(s):

HCA 303 Minimum Grade: C- OR T

HCA 399 - Individual Studies

1 to 4 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

HCA 402 - Public and Population Health

3 Credit(s)

This course consists of an examination of epidemiological concepts and methods of studying the distribution and determinants of morbidity and mortality in human population. The knowledge and skills acquired should enable one to understand and critically review scientific literature dealing with epidemiology concepts and measures. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 455 - Health Care Economics

3 Credit(s)

This course will examine health care decision-making and the functioning of health care markets in the U.S. The course is not designed as a pure economics theory course but instead emphasizes how you can frame and analyze various health issues using the principles of economics. By doing so, you will gain a powerful new perspective that will help you understand the decisions made by individuals and organizations in the face of scarce resources. Instructor permission.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 462 - Quality Management in Health Care

3 Credit(s)

Quality is an important aspect of health care; indeed, for most people, it is the most important aspect. Quality is defined in the dictionary as "degree of excellence" or "superiority in kind." Quality of care must be part of both the process and outcome of health care whenever possible. The issue is how does the system develop mechanisms to assure such quality? This course serves as an introduction to the process of quality management in health care organizations. Principles of total quality in health care will be discussed. Differentiation between quality assurance and quality management will also be presented. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

HCA 479 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

HCA 480 - Health Care Policy

3 Credit(s)

This course is an introduction to health policy. It will focus on how U.S. health policy is developed and will provide students with a general understanding of the policy making process and debates related major U.S. health care

legislations.

Prerequisite(s):

HCA 303 Minimum Grade: C- OR T
AND

HCA 305 Minimum Grade: C- OR T

AND

HCA 363 Minimum Grade: C- OR T

HCA 545 - Public Health

3 Credit(s)

This course provides a comprehensive coverage of traditional public health responsibilities- assessing the burden of disease, preventing and controlling health threats, and developing policies and public administration responses to improve health --in a contemporary framework. It covers the basics of administration, including public health law, human resources management, budgeting and financing, and legislative relations in public health.

HCA 550 - Elderly and Managed Care

3 Credit(s)

This course will consider long-term service delivery programs designed to meet the special needs of seniors. The course will include a managerial overview of seniors' housing and care and will analyze the demographics of aging, the role of financing, and the evolving marketplace.

HCA 555 - Health Policy

3 Credit(s)

Critical analysis of federal and state health policy processes, outcomes, and issues. This course allows students to examine the efficiency and effectiveness of health policy issues associated with access, cost, and quality. Emphasis is placed on policy formulation, implementation, assessment, and modification.

Prerequisite(s):

HCA 303 Minimum Grade: C

HCA 579 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

HCA 590 - Practicum

3 Credit(s)

The MHA Practicum: executive skill development is designed to develop and enhance the skills necessary for success as a healthcare executive through management practice in health care administration. The course provides the students

the opportunity to gain practical experience and integrate classroom knowledge and theory in an administrative setting within the health care industry.

HCA 595 - HCA Thesis

3 Credit(s)

The research project serves as a capstone experience as students complete the MBA emphasis area of study. Students will complete a research project involving an introduction to the problem or research question, comprehensive in-depth review of the current literature, research methodology, data collection, and analysis if applicable, and conclusions.

Prerequisite(s):

BUS 515 Minimum Grade: C

HEAL 179 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

HEAL 279 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

HEAL 379 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interest in the field.

HEAL 579 - Special Topics

0.050 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

HEAL 585 - Strategic Enrollment Management

3 Credit(s)

This course provides students with a study of purposes, organizations, and functions of strategic enrollment management (SEM) including relevant research, case studies of public and private college and university implementation of SEM, its context in higher education, and contemporary practical administrative SEM organizations and functions. Topics will be covered such as admissions, financial aid, student access and success, college completion, marketing and branding, technology, change management, and state and federal policies.

HEAL 590 - Entrepreneurship in Higher Ed

3 Credit(s)

This course provides an understanding of the various relationships that enable Institutions of Higher Education to expand their resource base to help them fulfill their missions. Students will examine the importance of external partnerships and activities related to such partnerships, including but not limited to grantsmanship, institutional advancement, and strategic collaborations with public and private entities.

HEAL 599 - Independent Studies

3 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HGP 179 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

HGP 192 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

HGP 199 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

HGP 279 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

HGP 292 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

HGP 299 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

HGP 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

HGP 392 - Workshop

0.5 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

HGP 399 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

HGP 471 - Senior Seminar

3 Credit(s)

This course is designed to be the academic capstone experience for all students who have majored in History/Government. All seminar members will participate in the discussion of the assigned reading material. Each student will write a paper that reflects the student's mastery of library usage, research methodology, breadth of

knowledge, and writing ability. The students will give oral presentations of their papers to the members of the Seminar. All students enrolled in the Senior Seminar will also write their Senior Comprehensive Examinations as part of the requirement for all History/Government majors. The Seminar topic will be chosen by the instructor but sufficient methodological approaches will be explored to accommodate the interests of students from either a History or Government emphasis.

HGP 479 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

HGP 492 - Workshop

0.5 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

HGP 499 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

HGP 516 - Methods/Teach Social Studies-Secondary

3 Credit(s)

This course is an introduction to concepts and techniques of imparting state academic standards to middle and high school students.

HGP 579 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

HGP 592 - Workshop

0.5 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

HGP 599 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Chair.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 301 - Colorado History

3 Credit(s)

The development of Colorado from prehistoric times to the present.

HIST 305 - The American West

3 Credit(s)

Historical survey of the Indian-, Hispanic-, and English-speaking groups of the West. Emphasis is on the frontier period.

HIST 316 - American Revolution & Federalist Era

3 Credit(s)

A comprehensive study of the period from 1763 to 1801, with particular attention given to the American Revolution, the Confederation, the Constitutional Convention, and the administrations of Presidents Washington and Adams.

HIST 320 - History of American Women

3 Credit(s)

This course examines the role of women in American History with special emphasis on how the story of women is told by historians over time. It examines not only the lives of many famous white women, but also the experience of women from various ethnicities and economic backgrounds. In addressing how Americans construct their understanding of women's lives in the U.S., the course will also reassess how focusing on women's lives might alter one's understanding of the broader patterns and interpretations of American History.

HIST 324 - History of American Business

3 Credit(s)

This course will examine the rise and evolution of U.S. business and capitalism from the founding of the country to the present. It will trace the development of business from early industries such as railroads, banking, and manufacturing through the rise of today's key industries such as automobiles, airlines, and technology corporations. It will also seek to

understand the development of the macro-economy through the development of fiscal and monetary policy, and issues of labor.

HIST 328 - Chicano History

3 Credit(s)

A survey of the historical development of the character, economy, social structure, politics, culture, and ideas of the Spanish-speaking people of Mexican descent in the U.S. from settlement until present, with particular attention given to the San Luis Valley.

HIST 330 - The Middle Ages

3 Credit(s)

A survey of the development of European civilization from the decline of the Roman Empire to the Italian Renaissance.

HIST 331 - Renaissance and Reformation

3 Credit(s)

A survey of European civilization from the end of the Middle Ages through the Renaissance and Reformations, coverage of Catholic Counter-reformation as well as the Protestant Reformation, with special emphasis on culture, religion, art, politics, science, and social history.

HIST 334 - French Revolution and Napoleon

3 Credit(s)

An examination of the many complex causes, effects, and lessons of the French Revolution, including daily life, the Estates, politics, economics and the absolute monarchy in Old Regime France, the onset of the Revolution, Napoleon and his empire.

HIST 340 - Water and Equity

3 Credit(s)

This course is an examination of water use and distribution among several cultures. Special attention will be devoted to Latino communities and current issues affecting aspects of equity in contemporary water policy.

HIST 346 - Imperial Spain

3 Credit(s)

This course examines Spanish history from 1700 to the end of the twentieth century, devoting special attention to the role of Spain in Europe and the construction of colonies in Africa and Asia in addition to the Americas.

HIST 350 - History of Sport in America

3 Credit(s)

This course covers the development of sports and their significance in American life from colonial period to present. It is designed both to supplement student's understanding of American History and to examine the role that sports have played in shaping contemporary society. Close attention will be paid to the context of sports development, especially the economic and social environment. Topics will include a study of the role of industrial society in fostering sports, and the changing gender structure of sports.

HIST 355 - Latin America to 1830

3 Credit(s)

A survey of the economic, political, and social dimensions of the colonial system. Themes include the pre-Columbian civilizations of the Americas, the imposition of European rule, the place of Latin America in the emerging Atlantic economy, and the independence movements of the early 19th century. Major emphasis will be given to the "core" areas of Mexico, Peru, and Northeastern Brazil, but other regions will also be considered.

HIST 356 - Latin America Since 1830

3 Credit(s)

This course will examine the evolution of Latin America from the aftermath of independence to the present. Major themes include: the incorporation of Latin America into the global economy, the effect of the export economy on the region's peasant populations, the building of national states, the fate of revolutionary struggles in the 20th century, and Latin America's "neocolonial" relationship with the United States.

HIST 357 - Mexico

3 Credit(s)

Historical survey of the social, intellectual, and political developments from the conquest to the present.

HIST 363 - Civil War and Reconstruction

3 Credit(s)

A study of the ante-bellum South, sectional discord, armed conflict, and reconstruction of the union.

HIST 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

HIST 392 - Workshop

0.5 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

HIST 399 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

HIST 420 - US Constitutional History

3 Credit(s)

The U.S. legal system, based on the U.S. Constitution, has evolved and shifted as the nation grew from an agrarian republic to the diverse and highly technical nation it is today. This course examines the history of the country through the Supreme Court and the evolving understanding of the Constitution, including the shaping of the Constitution through the amendments. This course considers the social and political context for the courts decisions and the impact those decisions have on government and the public.

HIST 426 - US in the Era of World Wars

3 Credit(s)

A study of the diplomatic, social, and political developments of the first half of the twentieth century, with emphasis on the impact of immigration, urbanization, technology, and America's increasing involvement in world affairs through World War II.

HIST 427 - The Sixties Era

3 Credit(s)

This course is a study of U.S. history from World War II through the 1980s, with emphasis on the Cold War, the Vietnam War, and social change in the 1960s era.

HIST 432 - Age of Revolutions

3 Credit(s)

This course will serve as a study of the greater Atlantic world between 1750 and 1850 with a major focus on the late Enlightenment and the birth of liberalism, nationalism, and romanticism in trans-Atlantic and revolutionary contexts. It will devote special attention to major political and social revolutions. Additionally, the course will consider the importance of the late Scientific Revolution, the abolition of African slavery, and the early Industrial Revolution.

HIST 433 - Industry and Empire

3 Credit(s)

This course will serve as a study of the late nineteenth century to the start of World War I. It will devote special attention to the rise of industrial Europe and the expansion of European imperialism in Africa and Asia. Additionally, the course will consider the importance of the Darwinian Revolution and modernism in several scholarly fields.

HIST 434 - Twentieth Century Europe

3 Credit(s)

This course examines how the relationship of Europe and the world has been transformed, whether a new United States of Europe is emerging, or whether Europe is collapsing into ethnic nationalism. Current materials available through the Internet will be used in this course.

HIST 435 - History of Nazism and Fascism

3 Credit(s)

This course will survey the history of Italian Fascism and Nazism in Germany from the end of the First World War to 1945.

HIST 440 - The US Presidency

3 Credit(s)

This course will examine the evolution of the U.S. Presidency from 1789 to the present day, with special attention devoted to the changing scope and function of the office in the changing context of broader American history. Other topics of particular interest are the key figures who have altered the institution and role of crisis in changing the scope and functioning of the office.

HIST 470 - Readings in History

3 Credit(s)

Through directed readings around a topic, this course permits students to explore fundamental questions concerning history or historiography.

HIST 479 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

HIST 496 - Internship in Law

3 Credit(s)

The internship course provides students with an opportunity to demonstrate synthesis and application of the cumulative skills acquired in the pre-law program to a real-world work setting. The internship is an experience that integrates the students classroom learning into a work environment. The student will work closely with an internship supervisor, together they identify a work plan that demonstrates accomplishment of program outcomes and specific Adams outcomes.

HIST 500 - Historiography and Historical Methods

3 Credit(s)

A historiographical seminar in which students learn and demonstrate a mastery of a variety of methods historians use to understand the past.

HIST 501 - State History

3 Credit(s)

A graduate-level survey of the history of a particular state, with emphasis on how meta and national phenomenon impacted a given state, as well as events and phenomena unique to the state.

HIST 505 - American West

3 Credit(s)

This course is a survey of the American West with an emphasis on interpretation by historians. Admission to the Master of Arts program is required.

HIST 507 - Latino History

3 Credit(s)

This course will give special attention to the loss of land in the late nineteenth century, community formation during the early twentieth century, and the Chicano Movement of the late 1960's and early 1970's. At a deeper level, this course explores both the strengths and weaknesses in the relevant historiography and fundamental questions about the practice of history and the forces that form and serve as custodians of memory.

HIST 510 - Teaching History

3 Credit(s)

This course explores best practices and trends in the teaching of history at the secondary and collegiate levels.

HIST 520 - Topics in World History

3 Credit(s)

This course will involve intensive reading, analysis, and discussion of selected topics/controversies in world history.

HIST 521 - Women in US History

3 Credit(s)

This course examines the role of women in American history with special emphasis on how the story of women is told by historians over time. It examines not only the lives of many famous white women, but also the experiences of women from various ethnicities and economic backgrounds. In addressing how Americans construct their understanding of womens lives in the U.S., this course will also reassess how focusing on womens lives might alter ones understanding of the broader patterns and interpretations of American history.

HIST 522 - Gilded Age and Progressive Era

3 Credit(s)

This course examines the United States from the end of Reconstruction through World War I. The Gilded Age covers the period of intense economic expansion after the Civil War, and examines the expansion of big business, the growth of the labor movement, and the crisis of the 1890's. The second half of the course studies the period of intense reform known as the Progressive Era, and concludes with U.S. participation in the First World War. Topics will include American overseas expansion, immigration, the suffrage movement, and the rise of governmental economic regulation.

HIST 526 - U.S. in the Era of World Wars

3 Credit(s)

A study of the United States History during World War I and World War II, or focused on either War, with special attention devoted to diplomatic, social, and political developments of the specific period under study with emphasis on the impact of immigration, urbanization, technology, and America's increasing involvement in world affairs.

HIST 527 - The Sixties Era

3 Credit(s)

The events of the 1960's continue to polarize the country today. This course is an in-depth examination of the transformation of the United States between World War II and the 1980's with a focus on the years 1964-1973, during which most of the events of what people understand as The Sixties took place. The major theme will be the transformation of the American political system, the social upheavals and cultural rebellion of the U.S. in the 1960's, the Vietnam War, and the Reagan Era. Of particular concern is how the era and events have been interpreted by scholars over time. This course is part of the core for the M. A. degree program in United States History. This course is designed for delivery through Blackboard and Blackboard Collaborate. It can also be adapted for a hybrid format, or a correspondence format.

HIST 540 - U.S. Presidency

3 Credit(s)

A study of the United States Presidency from 1789 to the present., with special attention devoted to the changing scope and function of the office in the changing context of broader American History. Other topics of particular interest are the key figures who have altered the institution and the role of crises in changing the scope and functioning of the office. The course with separate subtitles can be repeated no more than 3 times.

HIST 546 - Borderlands

3 Credit(s)

This course explores borderlands as a site of historical scholarship with special emphasis on the southwestern United States and the United States-Mexico border.

HIST 550 - US Sports History

3 Credit(s)

A study of the history of sports and leisure in the United States Presidency from colonial times to the present, with special attention devoted to the changing social context in which sporting activities have taken place. Other topics of

particular interest are the roles of race and gender in shaping the world of sport, and the roles of marketing, professional organizations, and media such as television in examining how sport has become part of the fabric of American life. This course views sport both as reflective of broader trends in American society but also as a catalyst of change.

HIST 551 - Atlantic History

3 Credit(s)

This course explores the Atlantic world as a field of historical scholarship with a special focus on European colonization of the Americas, African slavery, and the Age of Revolutions.

HIST 563 - Civil War and Reconstruction

3 Credit(s)

A graduate-level study of the antebellum South, sectional discord, armed conflict, and reconstruction of the Union.

HIST 568 - U.S.-Latin American Relations

3 Credit(s)

This course will examine U.S. - Latin Relations from the Monroe doctrine to the present with a more intensive and analytical focus on cold-war relations and the shift to post-cold-war dynamics.

HIST 579 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

HIST 590 - History Practicum

3 Credit(s)

A graduate-level practicum in the development and of United States History curriculum (education and public history).

HIST 591 - Thesis

3 Credit(s)

This course is the culminating experience for the MA program in which students demonstrate mastery of the discipline by producing an acceptable Master's Thesis. Successful completion of 21 hours of graduate-level work in History.

HIST 592 - Workshop

0.5 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

HIST 593 - Continuing Thesis

1 to 6 Credit(s)

This course is required each fall and spring semester after the student has taken HIST 591 (Thesis) and until successful defense of the thesis.

Prerequisite(s):

HIST 591

HIST 599 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Head.

ID 179 - Selected Topics

0.5 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

ID 199 - Independent Study

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

ID 279 - Selected Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

ID 292 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

ID 299 - Individual Study

1 to 16 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

ID 379 - Selected Topics

1 to 11 Credit(s)

Offered periodically to meet student special interests in the field.

ID 392 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

ID 399 - Interdivisional

1 to 3 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

ID 479 - Selected Topics

1 to 4 Credit(s)

Offered periodically to meet student special interests in the field.

ID 492 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

ID 499 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

ID 579 - Selected Topics

Offered periodically to meet student special interests in the field.

ID 592 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

ID 599 - Independent Study

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Chair.

KIN 100 - Foundations of Kinesiology

3 Credit(s)

This course serves as an overview of the historical, philosophical, ethical and sociological foundations of Kinesiology. This course will be delivered with a specific emphasis on exercise science, sport management, sport psychology, and coaching. Students also will study current issues, challenges and trends as they relate to professional careers and the administration of sport, fitness, and physical education. Embedded within this course is an introduction to the key Academic Program Goals of Kinesiology.

KIN 101 - Professional Introduction to K-12 PE

2 Credit(s)

The purpose of this course is to focus on historical and current issues and philosophical perspectives of American physical education and sport. Implications for today's physical education programs will be identified and discussed.

KIN 105 - Beginning Swimming

1 Credit(s)

This course is designed to prepare physical education majors or those with a physical education emphasis to teach swimming and pool related activities. Among the activities of the course are fundamental skills and basic strokes of swimming and water games and activities appropriate for K-12 students.

KIN 120 - Concepts in Wellness

3 Credit(s)

In this course, students will learn about the various dimensions of wellness, assess their own health status, and design interventions to improve personal health through lecture, video, laboratory experiences, and physical activities. This course will also provide students with the information necessary to make evidence-based decisions regarding personal wellness and to understand health disparities among diverse populations. There is a physical activity component to this course.

KIN 123 - Techniques/Coaching and Officiating Softball

3 Credit(s)

This course is a study of theory, techniques and practical application of coaching softball. The course will cover recent trends and systems, offensive and defensive play, as well as individual and team development as they pertain to the game of softball. A study and application of the rules of officiating softball will be covered.

KIN 125 - Techniques/Coaching and Officiating Volleyball

3 Credit(s)

This course is an overview of appropriate techniques and strategies of coaching and officiating the game of volleyball.

There is an emphasis on offensive and defensive play, fundamentals of individual skills and play, and the rules and mechanics of officiating volleyball.

KIN 141 - Teaching Team Activities

3 Credit(s)

This course is designed to teach basic skills, lead-up activities, and patterns of motor performance needed to successfully participate in and teach a variety of team activities.

KIN 160 - Introduction to Adventure and Leadership

3 Credit(s)

In this course, students will build an understanding of adventure and leadership through a variety of readings, class discussions, presentations, and hands on adventure activities. Completion of the course will prepare students for future leadership roles and for the KIN 261 Adventure Leadership and Programming Expedition and ALP minor.

KIN 179 - Special Topics

1 to 5 Credit(s)

This course is offered periodically to meet student special interests in the field.

KIN 192 - Workshops

0.5 to 5 Credit(s)

These courses are offered on an intermittent basis to meet the needs of special constituents.

KIN 199 - Independent Studies

1 to 6 Credit(s)

This course provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

KIN 205 - Sports and Recreation Management

3 Credit(s)

The Sport and Recreation Management course is designed for students preparing for positions with sport and club teams, community recreation, intercollegiate and high school athletics programs, international sport organizations, national and international amateur sport organizations, or firms specializing in sport. The course is designed to emphasize fundamental knowledge in sport and recreation and will prepare students for various roles in the industry. Through lectures, readings, video, and classroom assignments students will gain an understanding of the sport and recreation industry and how to successfully manage and lead an organization.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

KIN 210 - Sport Communication and Techniques

3 Credit(s)

This course introduces students to the main skills required for sports journalism and public relations, with particular emphasis on writing and public speaking. Students will learn about the historical development and cultural significance of sport and how those have shaped the business of sport. Students will also be introduced to technologies that impact on their abilities to write and disseminate stories and on how those technologies affect the character of messaging.

KIN 241 - Classroom Management in PE

1 Credit(s)

This course provides classroom management strategies for the unique demands of the physical education environment. Examines how to establish and maintain effective managerial task systems.

KIN 242 - Assessment in PE

2 Credit(s)

This course provides assessment strategies in standards-based physical education programs. Examines traditional and alternative assessment.

KIN 247 - First Aid, CPR, and AED Training

2 Credit(s)

This course covers practical and accepted first aid methods and techniques stressing evaluation and treatment of injuries caused by common accidents. Certification in Community First Aid and Safety, CPR, Professional Rescuer, Automated External and Defibrillator and Oxygen Administration upon successful skill completion.

KIN 251 - Teaching Individual / Dual Activities

3 Credit(s)

This course is designed for KIN majors within the teaching emphasis. It will educate these majors in the basic skills, lead-up activities, and patterns of motor performance needed to successfully participate in and ultimately teach a variety of individual and dual activities.

Prerequisite(s):

KIN 101 Minimum Grade: C- OR T
AND

KIN 141 Minimum Grade: C- OR T

KIN 261 - Adventure Leadership/Programming Expedition

6 Credit(s)

The Adventure Leadership and Programming Expedition (ALP) is a 14-day expeditionary learning experience that takes place in the back country of the Southern San Juan Mountains or the Sangre De Cristo Wilderness. This is the

first and introductory course in the Adventure Leadership and Programming Minor. The course seeks to teach the basic principles of outdoor leadership, wilderness expeditioning, and site management. This is one of eight courses that build to the Adventure Leadership and Programming Minor.

KIN 262 - Climbing Wall Instructor

1 Credit(s)

The Climbing Wall Instructor Course provides potential instructors with an in-depth and standardized understanding of the skills essential to teaching climbing in an indoor setting. It is the first step in a sequential approach to professional climbing instructor development. The course reinforces the importance of teaching technically accurate information and debunks many common climbing myths. The course emphasizes the presentation of sound fundamental skills to climbing gym participants, the formation of risk assessment and risk management skills and basic problem solving skills such as belay transitions and on wall coaching and assist techniques.

Prerequisite(s):

KIN 261 Minimum Grade: C- OR T

KIN 263 - Mountain Bike Site Management

1 Credit(s)

The Mountain Bike Site Management course provides Adventure Leadership and Programming students with an in-depth understanding of the skills essential for leading and teaching a mountain bike program. This is the third course in the Adventure Leadership and Programming Minor. Over a two-day period, this course will cover mountain biking technique, safety, basic maintenance, course designing, and will reinforce risk management strategies.

Prerequisite(s):

KIN 261 Minimum Grade: C- OR T

KIN 264 - Rock Climbing Site Management

2 Credit(s)

This course will cover the safety concerns surrounding a rock climbing site, equipment use and care, setup of the site, managing participants, and basic physics of climbing and climbing anchors.

Prerequisite(s):

KIN 262 Minimum Grade: C- OR T

KIN 266 - Wilderness First Aid (WFA)

1 Credit(s)

The course is designed to introduce you to the concepts of medical care in a wilderness setting. The course focuses on Basic Life Support skills, minor trauma, selected environmental topics, spine assessment and the ruling out process, allergic and toxic reactions, and "common" medical emergencies.

KIN 267 - Challenge Course Instructor

1 Credit(s)

The course provides potential instructors with an in-depth and standardized understanding of the skills essential to facilitating challenge course programs. It is the first step in a sequential approach to professional challenge course facilitator. The course emphasizes the presentation of sound facilitation skills; the formation of risk assessment and risk management skills; on challenge course coaching / assist techniques.

KIN 279 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student interests in the field.

KIN 292 - Workshops

0.5 to 5 Credit(s)

These courses are offered on an intermittent basis to meet the needs of special constituents.

KIN 299 - Independent Studies

1 to 6 Credit(s)

The course provides the opportunity for independent research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

KIN 300 - Promote a Healthy Environment

3 Credit(s)

In this course licensure candidate students will receive instruction in such areas as conflict resolution and mediation, empathy and compassion, non-violent restraint training, child health and nutritional concerns, crisis intervention, basic first aid and CPR, and emergency protocol as the relate to develop a safe and healthy school atmosphere.

Prerequisite(s):

Teacher Education Background Check Passed

KIN 301 - Sport and Fitness Nutrition

3 Credit(s)

This course will present a review of basic nutrition. The course will also explore the areas of sport, exercise and fitness nutrition, supplementation, sport drug use and abuse, weight loss diets, eating disorders, weight gain nutrition, body composition, and the metabolic nutritional requirements of various sports and fitness activities.

Prerequisite(s):

KIN-329 Minimum Grade: C- OR T
AND

BIOL-112 Minimum Grade: C- OR T

OR

BIOL-205 Minimum Grade: C- OR T

KIN 302 - Sport Psychology

3 Credit(s)

Sport psychology is primarily concerned with the interaction between psychological variables and participation in sport and exercise. This course will review this interaction by addressing variables that affect the individual athlete, influence sport and exercise environments, shape group processes, enhance health and wellbeing, improve performance, and facilitate psychological growth and development in sport participants from diverse populations.

KIN 305 - Sport Facility Management

3 Credit(s)

This course introduces students to the discipline of facility management as they relate to the sport, recreation, and leisure industries. Key topics will include planning, designing, managing, scheduling, leading, and supervising sport facilities.

Prerequisite(s):

KIN 100 Minimum Grade: C- OR T
AND

BUS 103 Minimum Grade: C- OR T

KIN 309 - Care / Prevention of Athletic Injuries

3 Credit(s)

The course will focus on the care and prevention of athletic injuries, including the evaluation, nature, types, and functions of various rehabilitation programs.

KIN 310 - Dance Fundamentals K-12

2 Credit(s)

The purpose of this dance pedagogy class is to introduce and rehearse the fundamentals of dance, music, and movement education. Dance forms such as folk, contra, square, modern, ballet, social and aerobic dance are integrated into the course and students will be required to perform and teach each dance form.

KIN 314 - Health Promotion

3 Credit(s)

This course examines the various factors that may influence a healthy society: heredity, environment, health care services, and lifestyle choices.

KIN 315 - PE in Elementary School

3 Credit(s)

The purpose of this course is to provide the student with an understanding of learning theories, a variety of techniques and methods of teaching elementary physical education, experience in the planning and development of lessons and practical experience in working with elementary physical education students in organized experience in a public school.

Prerequisite(s):

Teacher Education Background Check Passed
AND

ED 200 Minimum Grade: C- OR T

AND

ED 220 Minimum Grade: C- OR T

AND

KIN 101 Minimum Grade: C- OR T

AND

KIN 141 Minimum Grade: C- OR T

AND

KIN 251 Minimum Grade: C- OR T

Co-requisite(s): KIN 317 KIN 318

KIN 317 - PE in Secondary School

3 Credit(s)

This course is designed to provide pre-professional physical education students to continue to the organizational and content behaviors necessary to become an effective secondary physical educator. Emphasis will be placed on teaching movement concepts, extending and refining motor tasks and providing instructional feedback. 30-40 hours of field experience observing secondary PE education required for this class.

Prerequisite(s):

Teacher Education Background Check Passed
AND

ED 200 Minimum Grade: C OR T

AND

ED 220 Minimum Grade: C OR T

AND

KIN 101 Minimum Grade: C OR T

AND

KIN 141 Minimum Grade: C OR T

AND

KIN 240 Minimum Grade: C OR T

AND

KIN 251 Minimum Grade: C OR T

Co-requisite(s): KIN 319

KIN 318 - Field-Based PE Lab-Elementary

1 Credit(s)

The purpose of this field-based experience is to provide the student with an opportunity to practically apply learning theories, a variety of techniques and methods of teaching, experience in the planning and development of lessons and practical experiences at the elementary level in K-12 public school settings.

Prerequisite(s):

Teacher Education Background Check Passed

AND

ED 200 Minimum Grade: C- OR T

AND

ED 220 Minimum Grade: C- OR T

AND

KIN 101 Minimum Grade: C- OR T

AND

KIN 141 Minimum Grade: C- OR T

AND

KIN 251 Minimum Grade: C- OR T

Co-requisite(s): KIN 315 KIN 317

KIN 319 - Field-Based PE Lab-Secondary

1 Credit(s)

The purpose of this field-based experience is to provide the student with an opportunity to practically apply learning theories, a variety of techniques and methods of teaching, experience in the planning and development of lessons and practical experiences at the secondary level in K-12 public school settings.

Prerequisite(s):

Teacher Education Background Check Passed

AND

ED 200 Minimum Grade: C- OR T

AND

ED 220 Minimum Grade: C- OR T

AND

KIN 100 Minimum Grade: C- OR T

AND

KIN 141 Minimum Grade: C- OR T

AND

KIN 251 Minimum Grade: C- OR T

Co-requisite(s): KIN 315 KIN 317 KIN 318

KIN 329 - Exercise Physiology

3 Credit(s)

This course presents an introduction and overview of the physiological bases of physical education, sport, and athletics. The effects of exercise on the various systems will be considered. Practical application of exercise science to physical fitness and athletic performance will be emphasized.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

Co-requisite(s): KIN-329L

KIN 329L - Exercise Physiology Lab

1 Credit(s)

This exercise physiology lab class is designed to supplement the exercise physiology lecture course. This course will provide students with a hands-on experience in which they can apply concepts learned in the classroom to practice in the human performance laboratory and field of exercise, fitness, and sport.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

Co-requisite(s): KIN-329

KIN 340 - Kinesiology

3 Credit(s)

This course focuses on the nature of human movement as influenced by those motor factors, anatomical factors, and mechanical principles that apply at rest and in motion.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

AND

KIN 329 Minimum Grade: C- OR T

AND

KIN 329L Minimum Grade: C- OR T

KIN 341 - Human Motor Development**3 Credit(s)**

This course is designed to educate Kinesiology majors in the principles of human motor behavior and its influence on cognitive, affective, and psychomotor development throughout the lifespan. It will introduce students to factors that affect the intellectual, social, emotional, and physical development, growth and maturation of individuals relative to motor acquisition and regression.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

AND

BIOL 206 Minimum Grade: C- OR T

KIN 345 - Women, Sport, and Society**3 Credit(s)**

This course will explore how women have been involved in sports and athletics, how they have fought to claim recognition and legitimacy among historically male dominated settings, and how they continue to shape sports and the role of women in society. We will explore a wide variety of topics in society related to women in sports including historical influences, equitable access, characteristics of female sport participation, sport opportunities, and sport leadership. Topics will include Title IX, female bodies and physiology, sport diversity, gender identity, women's sport and aging, disabilities, sport and sexual violence, media and women's portrayal in sports, competitive sports in high school, college, and professional leagues, and marketing women's sports.

KIN 350 - Methods of Coaching**3 Credit(s)**

This course is intended to provide the foundations of coaching for a person who wants to coach at the youth, elementary, high school or college level. Through a series of discussions, readings, and other projects, the potential coach will gain the knowledge and skills required to be an effective coach. This course will address the many roles and duties a coach must accept to provide positive experiences for athletes in sport.

KIN 360 - Statistics in Kinesiology

3 Credit(s)

This course is designed to introduce students to statistical theories, data collection procedures, techniques for analysis and interpretation of data in Kinesiology.

KIN 365 - Winter Leadership Intensive

3 Credit(s)

The Winter Leadership Intensive is designed to expose students to winter travel and programming in the Southern San Juan Mountains. The course is an immersion experience divided into 4 sections: Avalanche 1 Certification course (3 days), Winter Travel and Camping (2 days), Emergency Response (1 Day), Introduction to Ice Climbing Site Management (3 days). This is one of eight courses that build to the Adventure Leadership and Programming Minor. Students enrolled in the course must have previously completed KIN 261 and KIN 264. Admittance to the course requires instructor approval.

Prerequisite(s):

KIN 261 Minimum Grade: C- OR T
AND

KIN 264 Minimum Grade: C- OR T

KIN 379 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

KIN 380 - Diversity, Equity Sport, and Society

3 Credit(s)

This course has a two-fold purpose: first, it is designed to provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask questions and think critically about sport as a part of society. This course will explore issues around diversity, equity and inclusion in sport and society.

KIN 390 - Risk Management

3 Credit(s)

This course explores the structure of the legal system, aspects of product liability, negligence, safety, and liability in the sport industry. Students will learn how to develop contracts designed to alleviate responsibility from a practitioner and/or organization from liability due to ordinary negligence. This course also includes discussions and practical applications for establishing a risk management system for facilities and sports programs.

Prerequisite(s):

KIN 120 Minimum Grade: C- OR T
AND

BUS 103 Minimum Grade: C- OR T

KIN 391 - Sport Ethics and Leadership

3 Credit(s)

This course explores the myriad of moral and ethical issues pertaining to athletes, sports, and sport organizations and how these apply to professionals in the field of sport management. The course will also explore leadership theories and philosophies. Current examples of ethical dilemmas in sport and sport management will be presented, and students will explore their personal ethics in relation to these issues.

KIN 392 - Workshops

0.5 to 5 Credit(s)

These courses are offered on an intermittent basis to meet the needs of special constituents.

KIN 399 - Independent Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

KIN 405 - Event Management

3 Credit(s)

This course focuses student attention on the processes of event management as they relate to the sport, recreation, and leisure industries. During this course, students will become familiar with the techniques and strategies needed to plan, organize, implement, and evaluate special sport and sport-related events. The end product of this High Impact Practice course will conclude with students organizing and executing a special event working with a community organization.

Prerequisite(s):

KIN 100 Minimum Grade: C- OR T
AND

BUS 103 Minimum Grade: C- OR T

KIN 415 - Funding Sports Organizations

3 Credit(s)

This course examines the methods by which sport organizations acquire funds in various settings (professional, amateur, non-profit). Economic implications for sports teams will be observed, as well as taxes, player contracts, and other financial challenges, concepts, and strategies within sport.

Prerequisite(s):

KIN 100 Minimum Grade: C- OR T
AND

BUS 103 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

OR

BUS 207 Minimum Grade: C- OR T

KIN 420 - Ethics in Sports Management

3 Credit(s)

This course explores the myriad of moral and ethical issues pertaining to athletes, sports, and sport organizations and how these apply to professionals in the field of sport management. Current examples of ethical dilemmas in sport and sport management will be presented and students will explore their personal ethics in relation to these issues.

Prerequisite(s):

KIN 100 Minimum Grade: C- OR T
AND

BUS 103 Minimum Grade: C- OR T

KIN 422 - Exercise Evaluation and Fitness Management

3 Credit(s)

This course is designed to familiarize students with the current methods used to determine levels of fitness in apparently healthy individuals, as well as individuals from special populations. Students will learn how to prescribe exercise for these individuals based on their fitness evaluation, basic training principles and other considerations. Students will be given the opportunity to test various individuals within specific testing parameters, and apply course knowledge to practical situations.

Prerequisite(s):

KIN 329L Minimum Grade: C- OR T

KIN 425 - Sport Law

3 Credit(s)

This course explores the structure of the legal system, aspects of constitutional law, labor and anti-trust law, tort law, product liability, contract law, administrative law, and statutory law applicable to the sport industry.

Prerequisite(s):

KIN 390 Minimum Grade: C- OR T

KIN 427 - Coaching Tech Strength / Conditioning

3 Credit(s)

This course is designed to provide information relative to the basic foundation of coaching sports conditioning including muscle physiology, bioenergetics, training methodology, exercise technique, program design, and facility management. Students will be given the opportunity to develop a general strength coaching philosophy and to demonstrate their knowledge relative to proper lifting techniques demonstrate their knowledge relative to proper lifting and training procedures.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T

KIN 429 - Advanced Exercise Physiology

3 Credit(s)

This course involves the advanced study of the various physiological systems involved in exercise, fitness and sport. The effects of exercise on these systems will be investigated. Practical application of exercise science knowledge and research to physical fitness and athletic performance will be emphasized.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T

AND

KIN 329L Minimum Grade: C- OR T

KIN 430 - Biomechanics

3 Credit(s)

This course will involve the study of the mechanical principles and factors that influence human movement. Students will develop an understanding of the biomechanical principles to human movement.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T

AND

KIN 329L Minimum Grade: C- OR T

AND

KIN 340 Minimum Grade: C- OR T

KIN 433 - International Perspectives of Sport Management

3 Credit(s)

This course will provide students with an understanding of the major concepts, trends, and critical issues in international sport management. Students will explore different international approaches to sport management which will involve comparing the policies, structure and governance of sport in various countries and identifying the challenges and good practices associated with different international approaches.

Prerequisite(s):

KIN 100 Minimum Grade: C- OR T

AND

BUS 103 Minimum Grade: C- OR T

KIN 436 - Applied Sport Psychology

3 Credit(s)

This course focuses on the practice of sport psychology. The course will review the significance of relevant psychological concept, and develop students' knowledge and skills relevant for applied sport psychology. Students will explore and experience the process of learning, developing and practicing techniques used to improve the athletic performance of individuals, groups, and teams.

Prerequisite(s):

KIN 302

KIN 438 - Sociological Aspects of Sports and PE

3 Credit(s)

This course is designed to introduce students to the sociological aspects of sport and encourage students to ask questions and think critically about sports as part of social life. It is intended for those students taking their first look at sports from a sociological perspective.

KIN 448 - Adapted Physical Activity

3 Credit(s)

This course is designed to introduce students to legal issues and current trends in instruction and programming across a variety of adapted physical activity settings. Emphasis will be placed on developing knowledge of various disabling conditions, potential activity modifications, and placement alternatives in the physical activity setting. Instruction will focus on inclusion of individuals with special needs in the general physical education program and other physical activity settings as well as the acquisition of lifetime physical activity skills.

Prerequisite(s):

KIN 341 Minimum Grade: C- OR T

AND

BIOL 112 Minimum Grade: C- OR T

OR

BIOL 205 Minimum Grade: C- OR T

AND

BIOL 206 Minimum Grade: C- OR T

KIN 450 - Senior Capstone

3 Credit(s)

This course is designed as a culminating experience for Kinesiology majors. The focus of this High Impact Practice

course will be on integrating prior knowledge, competencies, and experiences into practical applications and further professional development. Three main areas will be covered: service-learning, professional development, and personal reflection in relation to the student experience at Adams State.

Prerequisite(s):

Teacher Education Background Check Passed

KIN 468 - Mountaineering Capstone Experience

3 Credit(s)

This course serves as the culminating experience of the Adventure Leadership and Programming minor. In the first half of the course, students learn the skills necessary to travel effectively in high angle terrain on snow and ice in the mountain environment (6 days). In the second half, students bring all of their learning from the minor together to design and lead a 5-day expedition. This experience provides the final challenge of the ALP minor allowing students to demonstrate their competencies.

Co-requisite(s): KIN 261 KIN 264 KIN 266

KIN 479 - Special Topics

0.5 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

KIN 480 - Coaching Practicum

3 Credit(s)

In this course, students will gain actual field-based experience in coaching. This course will give the student an opportunity to gain documented experience as a coaching intern, apply the skills developed during his/her undergraduate program, and reflect on his/her experiences.

Prerequisite(s):

KIN 350 Minimum Grade: C- OR T

KIN 484 - Internship in Kinesiology

3 Credit(s)

This course provides kinesiology students with an opportunity to gain direct work experience in their chosen career field. All Internships in Kinesiology must follow the relevant procedures outlined in the syllabus to be recognized as an ASU internship and to be awarded ASU credit.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T

AND

KIN 422 Minimum Grade: C- OR T

KIN 485 - Sport Management Practicum

3 Credit(s)

In this course, students will gain actual field-based experience in the sport management field. This course will give students an opportunity to gain documented experience as a sport management intern, apply the skills developed during his/her undergraduate program, and reflect on his/her experiences.

Prerequisite(s):

KIN 305 Minimum Grade: C- OR T

KIN 486 - Sport Psychology Practicum

3 Credit(s)

In this course, students will gain actual field-based experience in the sport psychology field. This course will give students an opportunity to gain documented experience as a sport psychology intern, apply the skills developed during his/her undergraduate program, and reflect on his/her experiences.

Prerequisite(s):

KIN 302 Minimum Grade: C- OR T

KIN 487 - Sports Studies Practicum

3 Credit(s)

In this course, students will gain actual field-based experience in the sports studies area. This course will give students the opportunity to gain documented experience as a sport studies intern in a sport related business environment, apply the skills developed during his/her undergraduate program, and reflect on his/her experiences.

Prerequisite(s):

KIN 100 Minimum Grade: C- OR T

KIN 492 - Workshops

0.5 to 5 Credit(s)

These courses are offered on an intermittent basis to meet the needs of special constituents.

KIN 499 - Independent Studies

1 to 6 Credit(s)

This course provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

KIN 502 - Women, Sport, and Society

3 Credit(s)

This course will explore how women have been involved in sports and athletics, how they have fought to claim recognition and legitimacy among historically male dominated settings, and how they continue to shape sports and the role of women in society. We will explore a wide variety of topics in society related to women in sports including

historical influences, equitable access, characteristics of female sport participation, sport opportunities, and sport leadership. Topics will include Title IX, female bodies and physiology, sport diversity, gender identity, women's sport and aging, disabilities, sport and sexual violence, media and women's portrayal in sports, competitive sports in high school, college, and professional leagues, and marketing women's sports.

KIN 503 - Introduction to Research

3 Credit(s)

This is an introductory research course for graduate students focusing on the area of physical education and human performance. Participants will develop an understanding of the purpose and importance of research in this specific area, overview basic elements of quantitative, qualitative, mixed methods, and action research methods, enhance skills to evaluate and critique problem statement for a specific research study, and gain an appreciation for conducting research.

KIN 504 - Methods of Coaching

3 Credit(s)

This graduate course focuses on the foundations of athletic coaching and explores evidence based practices in coaching. Effective coaching strategies, behavioral issues, and personal roles of coaches that enhance athletic performance will be discussed. This course will focus on the differences between levels in competitive sports, including youth programs, interscholastic, and intercollegiate levels as well as coaching diverse populations.

KIN 505 - Sports Marketing and Public Relations

3 Credit(s)

This course prepares students with the tools needed to develop effective marketing and public relations strategies for sports and athletic programs. Topics such as marketing, advertising, public relations strategies, consumer behavior, licensing, and sponsorship will be explored.

KIN 506 - Psychology of Coaching

3 Credit(s)

This course will focus on the psychological principles of coaching and explore evidence-based practices in application to coaching. An emphasis will be placed on developing an understanding of human behavior in the sport context and how coaches can apply that knowledge to improve well-being and performance. There will also be a focus on applying these concepts to coaching diverse populations integrated throughout the course.

KIN 509 - Sports Physiology

3 Credit(s)

This course is designed to emphasize background knowledge in Exercise Physiology and Sport Science. Students will learn advanced structure and function of human neuromuscular and cardiovascular systems and develop working knowledge of adaptations made by these systems during training. Students will also learn to apply knowledge learned about external factors affecting these systems including the environmental conditions, nutrition, and ergogenic aids.

KIN 510 - Positive Psychology

3 Credit(s)

A study of positive psychology, specifically looking at well-being as it relates to participants in sport and performance settings.

KIN 515 - Administration of Sport

3 Credit(s)

This course is designed to teach students the important principles, concepts, research, and theories of managing a sport organization. Students will develop the ability to apply the management principles to interscholastic, intercollegiate and professional and Olympic sports. Students will learn the fundamental principles such as: organizational development, marketing, human resources, strategic planning, sport culture, media relations, fundraising, event management, and leadership as it relates to sport.

Prerequisite(s):

BUS 500

KIN 520 - Mental Health in Sport

3 Credit(s)

A study of psychological disorders and abnormal human behavior as it relates to participants in sport and performance settings.

KIN 525 - Facilities/Event Management

3 Credit(s)

This course introduces graduate students to the discipline of facility and event management as they relate to the sport, recreation, and leisure industries. Key topics will include planning, designing, managing, scheduling, maintaining, and supervising sport facilities. In addition, students will become familiar with the techniques and strategies needed to plan, promote, manage, and evaluate special sport and sport-related events.

KIN 527 - Sport Law

3 Credit(s)

This course is designed to provide the student with an understanding of the legal issues involved in supervision, management, and conduct in sport and recreation.

KIN 529 - Physiology of Exercise

3 Credit(s)

An advanced overview of the physiological basis of physical education and athletics. The effects of exercise on various systems will be considered. Practical application of exercise science to physical fitness and athletic training and performance will be emphasized.

KIN 530 - Human Performance Lab

3 Credit(s)

The Human Performance Lab Internship in the department of KIN is a planned, meaningful work experience. The primary purpose of the human performance lab internship is to allow students the opportunity for hands-on use of various methods of and equipment for exercise/ fitness testing, and to work directly with test subjects so that he/ she is able to apply some of the principles learned in the Physiology of Exercise course.

Prerequisite(s):

KIN 529

Co-requisite(s): KIN 529

KIN 533 - Financing Sport

3 Credit(s)

This course applies financial and economic principles to various professional, collegiate, or high school level sport programs as well as exercise-related settings. The course will provide the student with a practical background regarding the principles of financial management, economic theory, and financial systems for the purpose of planning, administering, reporting, and evaluating the financial performance of a sport organization.

Prerequisite(s):

KIN 515 AND BUS 520

KIN 536 - Sport Psychology

3 Credit(s)

A study of the fundamental concepts, science and theory in sport psychology and the implications for effective teaching and coaching related to this knowledge.

KIN 538 - Diversity and Equity in Sport

3 Credit(s)

This course explores aspects of diversity and equity in sport. This course has a two-fold purpose: first, it is designed to provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask questions and think critically about diversity, equity, and inclusion in sport and interaction with society. This course will explore issues around diversity, equity, and inclusion in sport and society.

KIN 539 - Strength and Conditioning

3 Credit(s)

This course is designed to provide information relative to the basic foundation of coaching sport conditioning including muscle physiology, bioenergetics, training methodology, exercise technique, program design, and facility management. Students will be given the opportunity to develop a general strength training program for a specific sport and to demonstrate their knowledge relative to proper lifting techniques and training procedures.

Prerequisite(s):

KIN 509 Minimum Grade: C

KIN 540 - Biomechanics

3 Credit(s)

This course will involve the study of the anatomical and mechanical principles underlying human movement. Practical application of biomechanical principles in human movement and various sport activities will be emphasized.

KIN 543 - Statistical Methods in Kinesiology

3 Credit(s)

This course is designed as an introduction of the statistics used in measurement and evaluation, and provides opportunities for students to analyze current research in Kinesiology.

Prerequisite(s):

KIN 509 Minimum Grade: B

KIN 545 - Exercise and Sport Nutrition

3 Credit(s)

An advanced study of nutrition as it applies to exercise and sport. Application of nutrition practices to health, fitness and performance will be explored, as well as issues of supplementation, drug abuse, weight loss/gain strategies, and metabolic nutritional requirements for a variety of sports and exercising individuals.

Prerequisite(s):

KIN 529 Minimum Grade: B

KIN 550 - Applied Sport Psychology

3 Credit(s)

This course focuses on application of sport psychology principles in practice. This course will focus on the scientist-practitioner model in relation to using evidence-based practices. There will be an emphasis on learning the various mental skills applied to teaching athletes, coaches, and teams; such as motivation, focus, composure, confidence, resiliency, quality practice, well-being, visualization, mastery and team cohesion.

KIN 556 - Strategic Management / Leadership

3 Credit(s)

This course will provide a detailed overview of strategic management and leadership with an emphasis on the management of sport organizations in the commercial, public and not for profit sectors. This course will enable learners to evaluate the relevance of distinctive strategic management tools and consider how these can be applied to support the development of effective sport and sport-related organizations. Students also will examine the principles of effective leadership and reflect on their personal leadership style, the skills and competencies that support the style as well as examining plans for personal and professional development.

Prerequisite(s):

BUS 500 Minimum Grade: C

KIN 560 - Mental Strength and Conditioning

3 Credit(s)

This graduate course focuses on advanced techniques and practices of mental strength and conditioning and explores evidence based practices in mental training. Effective coaching strategies, behavioral issues, and personal roles of mental strength coaches that enhance athletic performance will be discussed. This course will focus on the differences between levels in competitive sports, including youth programs, interscholastic, intercollegiate levels, professional/Olympic as well as other areas such as fitness/wellness, military and business.

KIN 570 - Ethics in Applied Sports Psychology

3 Credit(s)

This course will explore ethical and legal issues that applied sport psychology professionals often encounter in their work as teachers, researchers, and practitioners. This course is designed to educate the student on the Association for Applied Sport Psychology (AASP) Code of Ethics, which consists of 6 ethical principles and 26 standards and to meet standards for the required ethics course to sit to take the AASP Certified Mental Performance Consultant exam.

KIN 579 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interest in the field.

KIN 580 - Field Study in Kinesiology

3 Credit(s)

Formal study of program administration designed to acquaint the graduate student with the program philosophy, budgeting procedure and philosophy, scheduling and legal aspects of program administration.

KIN 581 - Case Studies in Applied Sport Psychology

3 Credit(s)

Case studies of real life scenarios in the field of applied sport psychology will serve as discussion points and provide students the opportunity to apply their knowledge and skills in sport psychology to develop methods for how to work with a variety of populations and potential scenarios within applied sport psychology.

KIN 584 - Exercise Science Practicum

3 Credit(s)

The practicum is designed to provide a structured practical experience for which the student is preparing. The assignment must be under the supervision of a qualified professional. The practicum is designed to provide the graduate student an actual field-based experience in a health, physical education, recreation, or athletic environment. The experience should give the student the opportunity to work with a working professional while enhancing and expanding the skills developed during their undergraduate and graduate programs. The practicum will consist of a minimum of 150 hours.

Prerequisite(s):

Complete a minimum of 18 graduate credit hours including KIN 503 and KIN 543 (minimum grade C).

KIN 585 - Practicum in Applied Sport Psychology**3 Credit(s)**

The practicum is designed to provide a structured practical experience for which the student is preparing. The assignment must be under the supervision of a qualified professional. The practicum is designed to provide the graduate student an actual field based experience in a health, physical education, recreation, or athletic environment. The experience should give the student the opportunity to work with a working professional while enhancing and expanding the skills developed during their undergraduate and graduate programs. The practicum will consist of a minimum of 100 hours.

Prerequisite(s):

Completed a minimum of 18 graduate credit hours including KIN 503 Minimum Grade: C

KIN 586 - Practicum II in Applied Sport Psychology**3 Credit(s)**

The practicum is designed to provide a structured practical experience for which the student is preparing. The assignment must be under the supervision of a qualified professional. The practicum is designed to provide the graduate student an actual field-based experience in a health, physical education, recreation, or athletic environment. The experience should give the student the opportunity to work with a working professional while enhancing and expanding the skills developed during their undergraduate and graduate programs. The practicum will consist of a minimum of 100 hours.

Prerequisite(s):

Complete a minimum of 18 graduate credit hours including KIN 503. Minimum Grade: C

KIN 587 - Diversity, Equity, and Inclusion in Sport Capstone**3 Credit(s)**

The capstone is designed to provide a cumulative experience for students who are completing the Diversity, Equity, & Inclusion (DEI) in Sport certification through the School of Kinesiology & Health Sciences. The capstone provides graduate students an opportunity to integrate the content they've learned in the DEI-related Kinesiology (KIN) prerequisite classes into their anticipated professions post-graduation. More specifically, students will further learn from minorities' lived experiences while being challenged to consider how such lived experiences should influence how the student manages themselves in professional and personal matters with the intent to be more equitable and inclusive of all bodies in their professional and personal lives.

KIN 591 - Thesis Proposal**3 Credit(s)**

This course represents the first part of a two-part culminating experience for the graduate student in Kinesiology. It is intended that his course will provide a practical and thorough experience working through a professionally designed research project. Completion of at least 18 graduate KIN credits are also required prior to course registration.

Prerequisite(s):

KIN 503 Minimum Grade: C
AND

KIN 543 Minimum Grade: C

KIN 593 - Master's Thesis**6 Credit(s)**

This course represents the culminating experience for the graduate student in the Master of Science in Exercise Science program. This course will provide a practical and thorough experience working through a professionally designed research project. It will include a written and oral presentation of the thesis proposal, as well as a written and oral defense of the completed Masters thesis. This course will be taken in the last year of the students program at Adams State University.

Prerequisite(s):

KIN 503 Minimum Grade: C
AND

KIN 543 Minimum Grade: C

KIN 596 - Capstone Project**3 Credit(s)**

This course is designed to integrate coursework into a capstone experience. It is an applied research course requiring students to utilize the tools and information from all the students coursework into a timely, useful capstone project in cooperation with their professional needs. This course is designed to integrate coursework into a capstone experience. It is an applied research course requiring students to utilize the tools and information from all the students coursework into a timely, useful capstone project in cooperation with their professional needs.

Prerequisite(s):

KIN 503 Minimum Grade: C
AND

KIN 543 Minimum Grade: C

KIN 599 - Independent Study**1 to 6 Credit(s)**

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Chair.

LEAD 500 - Leadership Theory**3 Credit(s)**

This course provides a study/review of leadership theories and leadership development concepts. Students will gain an understanding of leadership, leadership theories, and leadership development.

LEAD 501 - Cultural Competency and Equity in Higher Ed

3 Credit(s)

This course focuses on issues of equity, cultural competency, diversity and allyship to provide students with the tools needed to create more inclusive and socially just environments in higher education.

LEAD 510 - The Superintendency

3 Credit(s)

This course provides a survey of the Superintendency as an executive position responsible for the organizational leadership and management of school districts in the United States. Emphasis will be placed on unpacking professional standards from the American Association of School Administrators (AASA) as well as Colorado-based standards for licensure as a school administrator/superintendent.

Candidates will be expected to critically examine each of Standards in terms of how they are implemented through policies and practices within their own districts while making recommendations for improving such policies based on current research and best practice

LEAD 511 - Superintendents as Transformational Leaders

3 Credit(s)

This course supports aspiring superintendents in developing the knowledge and skills necessary to be responsive, transformational leaders in diverse school contexts. Throughout the course, candidates will engage in case-study analysis and critical discussion to work through potential dilemmas and challenges while applying research and best practice in leadership to sustain a clear focus on student learning through well-managed systems. The content of this course aligns to Colorado Department of Education and AASA standards.

LEAD 512 - Superintendent Practicum

3 Credit(s)

During this 300-hour practicum, candidates will apply knowledge and skills gained throughout the program to demonstrate competency in each of the required licensure standards for Administrator/Superintendent in Colorado.

Candidates will document progress on each standard by logging their experiences and writing monthly reflection papers in which they explicitly address how they are progressing on demonstrating licensure standards. This course also includes the final/capstone project- a candidate driven project developed in coordination with the candidate's mentor and host site to address a local need.

LEAD 520 - Leadership in MSIs

3 Credit(s)

This course examines the various leadership theories that inform the practice of administration in colleges and universities and the higher education industry in general. Through assignments, special attention will be geared toward applying these theories to leadership within the context of Hispanic Serving Institutions (HSIs).

LEAD 521 - Administrative and Academic Collaboration

3 Credit(s)

This course provides students with an overview of staffing practices in higher education and the opportunities and challenges for collaboration between faculty, staff, and administration, with a special emphasis on acquiring a better understanding of who faculty are, what faculty do, and what faculty think. Particular attention will be given to how organizational culture drives collaborative efforts in minority serving institutions.

LEAD 530 - Budgeting and Finance in Higher Education

3 Credit(s)

This course provides students with an overview of finance and budgeting issues in higher education. It describes the financial resource management in institutions as well as the budgeting process.

LEAD 531 - Politics and Policy in Higher Education

3 Credit(s)

This course examines state and federal government policies that influence institutions of higher education (IHEs) generally and Hispanic Serving Institutions (HSIs) specifically. The intersection between policies and institutional actions creates a dynamic that influences administrative leadership and student access and success. Effective leaders must account for the context in which they operate, and state and federal policies contribute to that context and, as such, merit special consideration and study.

LEAD 532 - Legal Issues in Higher Education

3 Credit(s)

This course is designed to review the impact of the judiciary on higher education. The legal standing of institutions of higher education on issues of staff rights, student rights, and tort liability will be addressed. In addition, the impact of local ordinances, state and federal laws and regulations will be examined.

LEAD 533 - Historical/Contemporary Issues

3 Credit(s)

This course provides students with an overview of the evolution of American higher education as we know it today. The first half of the course is an examination of the history of American higher education, beginning with colonial times and tracing its development to the present. The second half of the course examines current topics in higher education, focusing on perennial issues and why they continue to perplex higher education officials.

LEAD 560 - Data Analysis in Higher Education

3 Credit(s)

This course introduces the concepts and skills involved in understanding and analyzing research in a variety of areas in higher education. The course provides an overview of basic, general knowledge of various research methodologies. It emphasizes the conceptual underpinnings of statistical analysis of data, including univariate and bivariate descriptive statistics, sampling distributions, statistical estimation, hypothesis testing and procedures in testing statistical hypothesis for one and two sample designs. This course also enhances students' abilities to locate, read, comprehend, and critically analyze research articles and reports.

LEAD 561 - Institutional Research, Planning, and Assessment

3 Credit(s)

This course provides students with an overview of decision-making strategies and techniques for effective planning, institutional research, and assessment. Particular attention will be given to the diversity of institutional settings and the context within which leaders in higher education practice, including small and large campuses, public and private colleges and universities, system offices, and state and federal level agencies.

LEAD 562 - Strategic Enrollment Management

3 Credit(s)

This course provides students with a study of purposes, organizations, and functions of strategic enrollment management (SEM) including relevant research, case studies of public and private college and university implementation of SEM, its context in higher education, and contemporary practical administrative SEM organizations and functions. Topics will be covered such as admissions, financial aid, student access and success, college completion, marketing and branding, technology, change management, and state and federal policies.

LEAD 598 - Capstone/Portfolio in Higher Education

3 Credit(s)

Program coherence and student learning are demonstrated through a public exhibition and faculty assessment of a Capstone course. The Capstone is required for graduation with a masters degree. This course is designed to document what students have learned about higher education as a field of study and practice. Through the completion of case studies, two Star papers (scholarly-professional), and a reflective presentation, students will present evidence of how their learning aligns with the program goals of the curriculum. Capstone serves as a formative and summative evaluation of student learning.

LS 225 - Research Skills for Behavioral Sciences

1 Credit(s)

In this one-credit course, Sociology and Psychology majors will learn how to and use a variety of print and electronic resources specific to their discipline. Understanding the process of writing a literature review is the emphasis of the course.

MATH 95 - Pre-Algebra Skills

3 Credit(s)

Numeration, operations on whole numbers, factoring, prime numbers, arithmetic operations, decimal numerals, percent, measures, ratios and proportion, and averages. Course is graded on an S/U basis and does not provide credit toward bachelor's degrees.

MATH 97 - Basic Algebra Skills

3 Credit(s)

The content of this course focuses on linear equations, linear inequalities, linear functions, linear graphs, and applications. Also included are reviews of rational numbers, exponents, powers, and scientific notation. Non-linear functions are introduced. All topics are approached from multiple directions integrating basic skills, word problems, practical applications, modeling, and calculator use. Course is graded on an S/U basis and does not provide credit towards Bachelor's or Associate's degrees.

Prerequisite(s):

MATH 95 Minimum Grade: S or T
OR

ACT Math - Minimum Score: 13

OR

SAT Math - Minimum Score: 500

MATH 99 - Intermediate Algebra

3 Credit(s)

This course covers a review of linear equations, inequalities, functions, and graphs, as well as systems of linear equations before moving on to focus on quadratic equations, functions, and graphs. In addition, students will receive an introduction to powers, radicals, exponential functions and logarithms. Course is graded on a pass/fail basis and does not provide credit towards Bachelor's or Associates degrees.

Prerequisite(s):

MATH 97 Minimum Grade: S-C or T
OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

MATH 104 - Finite Mathematics GT-MA1

3 Credit(s)

Topics covered include functions and their graphs, matrices, linear programming, probability, and descriptive statistics. Applications are presented from the areas of biology, business, behavioral sciences, economics, and the social sciences.

Prerequisite(s):

MATH 97 Minimum Grade: S-C or T
OR

MATH 99 Minimum Grade: S-C or T

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

ACT Math - Minimum Score: 19

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T
OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T
OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T

OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

MATH 140 - Geometry Using Technology

3 Credit(s)

An introduction to the major concepts of Euclidean Geometry using interactive geometric visualization software such as Geometer's Sketchpad, Kig, or C.a.R. Students will use the software to survey Euclidean Geometry and discover basic principles and theorems.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

Accuplacer - Math - Minimum Score: 085

OR

MATH 99 Minimum Grade: S OR T

MATH 179 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

MATH 192 - Workshop

1 to 4 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

MATH 199 - Individual Studies

1 to 5 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

MATH 220 - Calculus III

4 Credit(s)

This course is an introduction to the calculus of functions of several variables. Typical topics include three-dimensional analytic geometry, vectors, parametric curves and surfaces, arc length and curvature, limits, continuity, partial derivatives, gradients, directional derivatives, tangent planes, multiple integrals, vector fields, line and surface integrals, Green's theorem, Stokes' Theorem, and the divergence theorem.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 230 - Excursions in Mathematics

3 Credit(s)

A quantitative and qualitative exploration of some of the great ideas and methods of mathematics. The main focus is on critical thinking and problem solving, as well as mathematical communication. Topics covered include infinity, logic, probability, statistics, Fibonacci numbers, the golden ratio, topology, non-Euclidean geometry, graphs, Pascal's triangle, tiling, fractals, voting theory chaos, and higher dimensions.

Prerequisite(s):

MATH 107 Minimum Grade: C- OR T
OR

MATH 120 Minimum Grade: C- OR T

MATH 236 - Research in Mathematics

1 Credit(s)

An independent research course. The student will work with a professor on a research project either designed by the student or the professor. The student's research must result in a paper and a presentation before a group of peers and professors.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 250 - Introduction to Mathematical Thought

3 Credit(s)

This course looks at topics central to further study in mathematics. These include symbolic logic, especially as it applies to mathematical proof; methods of mathematical proof such as direct proof, indirect proof, and by induction; use and meaning of mathematical quantifiers and predicates; sets; relations; equivalence relations and partitions; order relations; and functions and their properties.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

MATH 279 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

MATH 292 - Workshop

1 to 4 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents

MATH 299 - Individual Studies

1 to 5 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

MATH 321 - Linear Algebra

3 Credit(s)

An introduction to linear algebra. Typical topics include solutions of systems of linear equations, matrix algebra, determinants, vector spaces, linear independence, span, basis, dimension, coordinates, linear transformations, matrix representations of linear transformations, eigenvalues, eigenvectors, diagonalization, Gram-Schmidt orthonormalization projection, and applications.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 322 - Algebraic Structures I

3 Credit(s)

An introduction to the theory of groups. Typical topics include sets, mappings, binary operations, equivalence relations, partitions, the integers, induction, the well-ordering property, elementary number theory, cryptography, coding theory, groups (permutation groups, symmetry groups, matrix groups, and cyclic groups), subgroups, cosets, Lagrange's theorem, normal subgroups, homomorphisms, isomorphisms, Cayley's theorem, and isomorphism theorems.

Prerequisite(s):

MATH 250 Minimum Grade: C- OR T
AND

MATH 321 Minimum Grade: C- OR T

MATH 323 - Algebraic Structures II

3 Credit(s)

An introduction to the theory of rings and fields. Typical topics include rings, ideals, integral domains, fields, ring homomorphisms, quotient rings, polynomial rings, division algorithms, factorization of polynomials, extensions of fields, finite fields, and Galois theory.

Prerequisite(s):

MATH 322 Minimum Grade: C- OR T

MATH 326 - Mathematical Modeling and Simulation I

3 Credit(s)

This course teaches students how to apply mathematical modeling processes, methodology and software toolsets to solve realistic and complex problems, as well as to program and perform computer simulations of mathematical models.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T
OR

MATH 220 Minimum Grade: C- OR T

AND

CSCI 104 Minimum Grade: C- OR T

OR

CSCI 202 Minimum Grade: C- OR T

OR

CSCI 205 Minimum Grade: C- OR T

MATH 327 - Differential Equations

3 Credit(s)

An introduction to the study and application of ordinary differential equations. Typical topics include first order differential equations, linear differential equations, systems of equations, existence and uniqueness of solutions, bifurcations, the Laplace transform, matrix methods, and stability theorems.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 330 - Numerical Analysis

3 Credit(s)

Numerical methods for the solution of mathematical problems and computer application of those methods. Typical topics include the bisection algorithm, fixed point iteration, interpolation, polynomial approximation, numerical differentiation and integration, solution of systems of linear equations, least squares approximation, and error analysis.

Prerequisite(s):

MATH 121 Minimum Grade: C- or T

AND

CSCI 202 Minimum Grade: C- or T

OR

CSCI 205 Minimum Grade: C- or T

MATH 331 - Modern Geometry

3 Credit(s)

An introduction to plane geometry intended for future teachers of mathematics. Typical topics include deductive reasoning and the axiomatic method, Euclidean geometry, parallelism, hyperbolic and other non-Euclidean geometries.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

AND

MATH 250 Minimum Grade: C- OR T

MATH 335 - History of Mathematics

3 Credit(s)

This course traces the historical development of mathematics from ancient to modern times, placing mathematical facts into a meaningful intellectual and historical context. Typical topics include mathematics in early civilization such as Egypt and Babylonia; early Greek mathematics from Euclid to Archimedes; the work of Diophantus; mathematics in medieval Islam and its transmission to the Latin West; the early development of algebra; the analytic geometry of Descartes and Fermat; the development of the calculus at the hands of Newton and Leibniz; the contributions of the Bernoulli family; nineteenth-century analysis from Cauchy to Weierstrass; nineteenth-century algebra from Galois through Klein; the development of non-Euclidean geometry; and Cantor's development in set theory.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 340 - Probability and Statistics

3 Credit(s)

A mathematically oriented introductory course in probability and statistics. Typical topics include counting techniques and laws of probability, independence, discrete and continuous random variable, distributions (normal, t, chi, square, F, Poisson, exponential, and sampling), regression correlation, confidence intervals and hypothesis testing, mathematical expectation, moment generating functions, the Central Limit Theorem, and point estimation.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 379 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

MATH 392 - Workshop

1 to 4 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

MATH 399 - Individual Studies

1 to 5 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

MATH 420 - Advanced Analysis I

3 Credit(s)

Rigorous presentation of the fundamental concepts and techniques of real analysis, including a careful study of continuity and convergence, sets and functions, sequences and series, limits and continuity, and differentiation.

Prerequisite(s):

MATH 220 Minimum Grade: C- OR T

AND

MATH 250 Minimum Grade: C- OR T

MATH 421 - Advanced Analysis II

3 Credit(s)

This course is a continuation of MATH 420 with an emphasis on integration, sequences and series of functions, uniform convergence, infinite series, and additional topics of the instructors choosing.

Prerequisite(s):

MATH 420 Minimum Grade: C- OR T

MATH 430 - Complex Analysis

3 Credit(s)

Theory of functions of one complex variable, including derivatives, integrals, power series, residues, and conformal mappings.

Prerequisite(s):

MATH 220 Minimum Grade: C- OR T

MATH 436 - Research in Mathematics

1 Credit(s)

An independent research course. The student will work with a professor on a research project either designed by the student or the professor. The student's research must result in a professional quality paper or project and a presentation before a group of peers and professors.

MATH 440 - Topology

3 Credit(s)

This course is an introduction to the theory of point-set topology. The main components of the course will be topological spaces, including product and quotient spaces, continuous functions, local and global connectedness, local and global compactness, countability, separability, and the Tychonoff axioms. The culmination of the course will be in the Tietze extension theorem, Uryson's Lemma, and Uryson's Metrization theorem. Further study into Tychonoff axioms and spaces and the Tychonoff theorem will be done, time permitting.

Prerequisite(s):

MATH 250 Minimum Grade: C- OR T

MATH 471 - Senior Capstone I

1 Credit(s)

First-semester of a capstone course intended for senior mathematics majors. In this course students will begin the development of a project to be conducted under the guidance of a faculty advisor from the department. In addition, the course will focus on written and oral communication of technical material appropriate to the disciplines of mathematics, computer science, and physics.

Prerequisite(s):

Senior Standing

MATH 472 - Senior Capstone II

1 Credit(s)

Second-semester of a capstone course intended for senior mathematics majors. In this course students will continue the development of an independent project, begun in MATH 471, and conducted under the guidance of a faculty advisor from the department. In addition, the course will focus on written and oral communication of technical material appropriate to the disciplines of mathematics, computer science, and physics.

Prerequisite(s):

MATH 471 Minimum Grade: C- OR T

MATH 479 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

MATH 492 - Workshop

0.5 to 4 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

MATH 499 - Individual Studies

1 to 5 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

MATH 579 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

MATH 592 - Workshop

1 to 4 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

MATH 599 - Individual Studies

1 to 5 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Chair.

MPA 500 - Introduction to Public Administration

3 Credit(s)

An introductory survey to the field of public administration, especially historical, political, and organizational approaches to ethical and reflective professional practice.

MPA 503 - Applied Research Methods in Public Administration

3 Credit(s)

This course provides an introduction to the major research methods used in public administration. The goal of the course is to acquaint students with the basic approaches, concepts, and tools of research with a focus on their application in public and non-profit settings.

MPA 508 - Public, Law, Policy, and Regulatory Environment

3 Credit(s)

Examines the legal foundation and environment of public administration in the United States. It will emphasize how the Constitution affects the administrative state as well as how the federal judiciary, especially the Supreme Court, share the administrative process. It will also explore how constitutional and administrative law influence the decision making of civil servants.

MPA 510 - Practicum

1 Credit(s)

This course provides students with actual experiences, through projects and practical activities, in the practice of public administration in a professional setting. Students will work with practicing administrators in public/non-profit agencies under the direction of a workplace supervisor. This practicum will require students to work at least 50 hours and demonstrate an ability to apply the concepts and skills learned in the classwork to a professional setting through artifacts tied to MPA 503 and MPA 508.

MPA 512 - Public, Budget, Finance, and Project Management

3 Credit(s)

Examines the processes of debating and financial management in the public sector. This includes the characteristics of the budgetary process and financial management in the U.S., the major revenue systems and forecasting, capital budgeting, debt management, and fiscal analysis. In addition, it will examine the concepts and techniques of project management as it is used in public administration.

MPA 514 - Human Resources and Leadership Development Public Sector

3 Credit(s)

Examines the historical, normative, and practical development of the fields of human resources management in the Public sector. Students will examine the characteristics of government personnel systems and the processes and best practices used in managing human capital. Unique aspects of labor relations in the public sector are considered along

with state and federal regulations guiding the public employer. Special attention will be paid to processes of identifying and developing future organizational leaders.

MPA 516 - Practicum II

1 Credit(s)

This course provides students with actual experiences, through projects and practical activities, in the practice of fiscal project, and/or human resources management in a professional setting. Students will work with practicing administrators in public/non-profit agencies under the direction of a workplace supervisor. This practicum will require students to work at least 50 hours and demonstrate an ability to apply the concepts and skills learned in the classwork to a professional setting through artifacts tied to MPA 512 and MPA 514.

MPA 520 - Practicum III

3 Credit(s)

This course provides students with actual experiences, through projects and practical activities, in the assessment of public policies and procedures in a professional setting. Students will work with practicing administrators in public/non-profit agencies under the direction of a workplace supervisor. This practicum will require students to work at least 150 hours and demonstrate an ability to apply the concepts and skills learned in the classwork to a professional setting.

MPA 524 - Community and Economic Development

3 Credit(s)

Examines how rural and urban communities address poverty, unemployment, and other economic problems through job creation and retention, workforce training, and other development strategies. It reviews the major theories in the field as well as applications in real-life conditions. The course also pays special attention to how economic development constituencies use communication techniques, including lobbying, advocacy and marketing, to advance their proposals in the larger political environment.

MPA 526 - Planning in the Real World

3 Credit(s)

Provides with an overview of the theory and practice of planning and decision-making in the public sector. The course focuses on the development of practical skills necessary to develop and implement strategic planning initiatives in a political environment. Students will use case studies and simulation to apply these skills in real organizational settings.

MPA 528 - Practicum IV

1 Credit(s)

This course provides students with actual experiences, through projects and practical activities, in a professional setting. The practicum will focus on elements of community planning and economic development. Students will work with practicing administrators in public/non-profit agencies under the direction of a workplace supervisor. The practicum will require students to work at least 50 hours and demonstrate an ability to apply the concepts and skills learned in the classwork to a professional setting through artifacts tied to MPA 524 and 526.

MPA 530 - Public Policy Analysis

3 Credit(s)

This course examines the multiple ways in which public policy is made in the U.S. including the various processes of policy making and the actors and institutions involved in overseeing those processes. It also examines a number of the pressing policy issues facing the nation today as well as some of the solutions that have been tried or proposed.

MPA 532 - Emergency Management: Infrastructure and Services

3 Credit(s)

Provides students with an overview of the characteristics, functions, and resources necessary for government to develop and operate an integrated emergency management system. The major elements of emergency management, including response, recovery and preparedness, are all addressed. This includes the primary services provided by first responders as well as the critical infrastructure necessary to effectively deliver those services.

MPA 533 - Organizational and Community Behavior

3 Credit(s)

Examines the organizational and community context in which public manager must operate. Including a focus on why people behave the way they do in organizations and what can be done to change those behaviors. This includes the most effective communications strategies used in dealing with community groups, advisory boards and councils. The course will review a wide range of situations and examples of human behavior and connect them in foundational theories and effective practical management methods.

MPA 550 - Public Administration Capstone

3 Credit(s)

The Capstone Course offers each student the opportunity to demonstrate mastery of the theory and practice of public administration by applying the knowledge and skills gained in the MPA and MBA-PA programs. This involves completing a portfolio project reflecting the cumulative knowledge gained from these experiences.

Prerequisite(s):

Admission to MPA or MBA program

MPA 579 - Special Topics

3 Credit(s)

This course will be developed by the instructor on topics of interest to the students in the Public Administration Program that are not otherwise offered in the degree plan.

MPA 599 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

MUED 503 - Analytical Techniques

3 Credit(s)

This course will examine the principle forms and structural elements of music from the Renaissance through the twentieth century. This course will introduce students to a variety of approaches and philosophies of musical analysis, accomplished through listening and analysis of musical repertoire.

MUED 504 - Orchestration and Arranging

3 Credit(s)

This course will provide instruction in music orchestration and arranging techniques pertinent to music educators. Students will apply these techniques to arrangements for voice and contemporary band/orchestral instruments and ensembles.

MUED 521 - World Music and Culture

3 Credit(s)

This course will provide the conceptual foundations necessary to explore and integrate music from around the world into the K-12 music curriculum. Through case study, critical writing, audio and video example, and individual research, students will investigate, experience, and synthesize the importance of music as it relates to different cultures, customs, religions, and history. Students will learn how music is correlated to everyday activities in a variety of societies.

MUED 523 - Topics in Jazz and Rock

3 Credit(s)

This course will examine the development and principle styles in jazz and rock music in the 20th and 21st centuries. The course will look at the important developments in both styles through musical, historical, and cultural lenses. The goal of this course is to go beyond a broad overview of these styles, with students doing in-depth listening to seminal albums in both jazz and rock.

MUED 533 - American Music History

3 Credit(s)

This course is designed as a survey of the development of music in the current United States, from the Spanish colonization in the 16th century to present times. Topics addressed will include the various musical styles and genres, composers of the period and their compositions. Emphasis will be placed on developing a thorough knowledge of music literature of the time, being able to place this music in its proper historical and cultural context, as well as being able to incorporate it into the K-12 curriculum.

MUED 534 - Music Literature and Pedagogy

3 Credit(s)

A study of choral and instrumental literature, pedagogical techniques, and rehearsal techniques appropriate for school ensembles. The course explores resource materials, pedagogical practice, and effective teaching strategies.

MUED 540 - Applied Lessons

2 Credit(s)

This course is required for the combined online/on-campus track of the Master of Arts in Music Education.

MUED 541 - Applied Lessons

2 Credit(s)

This course is required for the combined online/on-campus track of the Master of Arts in Music Education.

MUED 545 - Band

1 Credit(s)

Open to all students regardless of major field who demonstrate sufficient ability on a standard wind or percussion instrument.

MUED 546 - Jazz Ensemble

1 Credit(s)

An advanced instrumental jazz ensemble, open by audition. Repertoire is selected from a variety of jazz styles and periods.

MUED 547 - Concert Choir

1 Credit(s)

Open to all qualified students with repertoire selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions.

MUED 548 - Jazz Singers

1 Credit(s)

An advanced vocal jazz ensemble, open by audition to students who will be expected to perform a significant leadership role in the ensemble. Repertoire is selected from a variety of jazz and popular styles and periods.

MUED 549 - Chamber Ensemble

1 Credit(s)

Selected groups including instrumental, vocal, and mixed ensembles for performance of music in specific periods and mediums.

MUED 550 - Orchestra

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard orchestral instrument.

MUED 555 - Wind Ensemble

1 Credit(s)

An advanced mixed instrumental ensemble, open to wind and percussion students by audition. Repertoire is selected from standard and contemporary wind ensemble literature.

MUED 557 - Chamber Choir

1 Credit(s)

Small choral ensemble, by audition. Repertoire selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions.

MUED 565 - Introduction to Music Ed Research

3 Credit(s)

This course serves as an introduction to research methodologies used in music and music education. It provides a broad foundation in research design, including quantitative, qualitative, historical, philosophical and non-experimental models. In addition, students familiarize themselves with basic statistical concepts, the library, and standard reference tools and electronic resources for the purpose of research.

MUED 567 - Music Ed History and Philosophy

3 Credit(s)

This course will address the historical and philosophical foundations of music education in the United States, with a focus on aesthetics and the role of the arts in education. Students will formulate a personal philosophy of music education to guide choices in curriculum, teaching, and assessment.

MUED 568 - Sociology and Psychology of Music Education

3 Credit(s)

This course will address the sociological and psychological foundations of music education in the United States focusing on relationships to current trends and best practices.

MUED 595 - Graduate Recital

1 Credit(s)

Preparation and presentation of a public recital of approximately 60 minutes of prepared music.

Co-requisite(s): MUED 541

MUED 596 - Music Education Curriculum Project

3 Credit(s)

This course will address the curriculum and assessment in music education culminating in a curriculum project to be put into practice in the classroom.

MUS 000 - Recital Attendance

0 Credit(s)

A requirement for music majors and minors, which consists of attendance at a designated number of concerts/recitals each semester.

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

MUS 101 - Music Fundamentals

2 Credit(s)

An introductory course for music majors and minors that includes the fundamentals of music theory, notation, and basic aural skills. May not be counted as credit towards a music degree.

MUS 102 - Introduction to Jazz

3 Credit(s)

A survey of jazz styles and principal performers from the development of early jazz to its emergence as a significant contribution to world music. Listening, lectures, readings, and experiencing performances are vital components of this course.

MUS 103 - Introduction to Music Technology

1 Credit(s)

An introduction to music technology, covering a broad range of topics such as music notation, MIDI, music sequencing, mixing, and basic audio editing. The programs to be used include Finale, Garageband, and Audacity, and students compose music utilizing basic concepts of music fundamentals and music theory. The goal of this course is to

equip students with music technology skills and knowledge that will be of benefit during their collegiate and professional careers.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 104 - Music Theory I

3 Credit(s)

Development of basic music skills and harmony with practical application through part-writing and composition.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 106 - Careers in the Music Industry

1 Credit(s)

The course provides a broad overview of the music industry, the career opportunities that are available, and effective methods of preparing for success in ones chosen career path.

MUS 108 - Aural Skills I

1 Credit(s)

Foundational work in sight singing and written dictation.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 120 - Class Piano I

1 Credit(s)

A study of beginning keyboard techniques with emphasis on the skills needed to fulfill the piano proficiency requirement.

MUS 121 - Class Piano II

1 Credit(s)

A study of intermediate keyboard techniques with emphasis on the skills needed to fulfill the piano proficiency requirement.

Prerequisite(s):

MUS 120 Minimum Grade: C- OR T

MUS 130 - Secondary Applied Music

1 Credit(s)

Private instruction in applied music. Applicable to a music degree only as secondary applied credit. May be repeated for credit (eight hours maximum).

MUS 140 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

MUS 141 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 140 Minimum Grade: D OR T

MUS 179 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

MUS 192 - Workshop

0.5 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

MUS 199 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

MUS 204 - Music Theory II

3 Credit(s)

Advanced study in music writing and analysis with emphasis on tonal and chromatic harmony.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

MUS 208 - Aural Skills II

1 Credit(s)

Emphasis on sight singing in parts, more difficult keys and intervals, modulations, and rhythmic patterns in dictation.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T
AND

MUS 108 Minimum Grade: C- OR T

Co-requisite(s): MUS 204

MUS 210 - Mariachi Ensemble

1 Credit(s)

Open to all qualified students by audition, regardless of major field. Music chosen from standard mariachi repertoire. May be repeated for credit. Audition and permission of instructor required for registration.

MUS 212 - Jazz Improvisation I

1 Credit(s)

Emphasis on basic jazz literature, chord symbols, melodic patterns, ear training, melodic concepts, and analysis of improvised solos.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

MUS 220 - Class Piano III

1 Credit(s)

A continuation of intermediate keyboard technique with emphasis on skills needed to fulfill the piano proficiency requirement.

Prerequisite(s):

MUS 121 Minimum Grade: C- OR T

MUS 226 - Lyric Diction I

3 Credit(s)

A study of lyric diction and phonetic transcriptions of languages common to standard vocal repertoire. The course includes English, German, Spanish, and an introduction to the International Phonetic Alphabet.

MUS 227 - Lyric Diction II

3 Credit(s)

A study of lyric diction and phonetic transcriptions of languages common to standard vocal repertoire. The course includes Ecclesiastical Latin, Italian, French, and an introduction to the International Phonetic Alphabet.

MUS 240 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 141 Minimum Grade: C- OR T

MUS 241 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 240 Minimum Grade: C- OR T

MUS 242 - Applied Music - Composition

2 Credit(s)

This course will provide private instruction in basic music composition. May be repeated for credit (four hours maximum).

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

MUS 243 - Applied Music - Composition

2 Credit(s)

This course will provide further private instruction in basic music composition. May be repeated for credit (four hours maximum). This course requires instructor approval for registration purposes.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

AND

MUS 242 Minimum Grade: C- OR T

MUS 245 - Concert Band

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard wind or percussion instrument. May be repeated for credit.

MUS 246 - Jazz Ensemble

An advanced instrumental jazz ensemble, open to all qualified students by audition. Repertoire is selected from a variety of jazz styles and periods. May be repeated for credit.

MUS 247 - Concert Choir

1 Credit(s)

Open to all qualified students with repertoire selected from the standard choral concert literature. May be repeated for credit.

MUS 248 - Jazz Singers

An advanced vocal jazz ensemble, open to qualified students by audition. Repertoire is selected from a variety of jazz styles and periods. May be repeated for credit

MUS 249 - Chamber Ensemble

Selected groups including instrumental, vocal, and mixed ensembles for performance of music in specific periods and mediums. May be repeated for credit.

MUS 250 - Orchestra

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard orchestral instrument. May be repeated for credit.

MUS 252 - Music Theatre Workshop

1 Credit(s)

The study and production of musical theatre and opera repertoire appropriate for educational theatre. May be repeated for credit.

MUS 255 - Wind Ensemble

1 Credit(s)

An advanced mixed instrumental ensemble, open to wind and percussion students by audition. Repertoire is selected from standard and contemporary wind ensemble literature. May be repeated for credit.

MUS 257 - Chamber Choir

1 Credit(s)

An advanced mixed choral ensemble, open to students by audition. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

MUS 279 - Special Topics

0.5 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

MUS 292 - Workshop

0.5 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

MUS 299 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

MUS 304 - Advanced Theory

3 Credit(s)

The study of advanced chromatic harmony and twentieth-century musical techniques through analysis and composition.

Prerequisite(s):

MUS 103 Minimum Grade: C- OR T
AND

MUS 104 Minimum Grade: C- OR T
AND

MUS 204 Minimum Grade: C- OR T

MUS 308 - Advanced Aural Skills

1 Credit(s)

Advanced sight singing and ear training, including harmonic and melodic dictation using chromatic intervals.

Prerequisite(s):

MUS 208 Minimum Grade: C- OR T

MUS 312 - Jazz Improvisation II

1 Credit(s)

Emphasis on the analysis and performance of intermediate jazz literature and composition in contemporary styles.

Prerequisite(s):

MUS 212 Minimum Grade: C- OR T

MUS 320 - Advanced Piano Class

1 Credit(s)

Advanced functional keyboard technique with emphasis on skills needed to fulfill the piano proficiency requirement.

Prerequisite(s):

MUS 220 Minimum Grade: C- OR T

MUS 321 - Voice Methods

1 Credit(s)

A course designed to enable music education majors to gain a practical knowledge of the voice and relevant pedagogy. Not open to students whose principal instrument is voice.

MUS 322 - Percussion Methods

1 Credit(s)

A course designed to enable music education majors to gain a practical knowledge of percussion instruments and relevant pedagogy.

MUS 323 - Brass Methods

1 Credit(s)

A course designed to enable music education majors to gain a practical knowledge of brass instruments and relevant pedagogy.

MUS 324 - Woodwind Methods

1 Credit(s)

A course designed to enable music education majors to gain a practical knowledge of woodwind instruments and relevant pedagogy.

MUS 325 - String Methods

1 Credit(s)

A course designed to enable music education majors to gain a practical knowledge of string instruments and relevant pedagogy.

MUS 326 - Music History I

3 Credit(s)

A detailed survey of music history from antiquity to 1750.

Prerequisite(s):

MUS 100 Minimum Grade: C- OR T
AND

MUS 104 Minimum Grade: C- OR T

MUS 327 - Music History II

3 Credit(s)

A detailed survey of music history from 1750 to the present.

Prerequisite(s):

MUS 100 Minimum Grade: C- OR T
AND

MUS 104 Minimum Grade: C- OR T

MUS 333 - Form and Analysis

2 Credit(s)

This course examines the principal musical forms and structural elements of music from the Baroque period through the present. While the majority of the course covers western classical music and composers, forms in pop and rock music will also be covered. Students will be introduced to a variety of approaches and philosophies of musical analysis, accomplished through listening and analysis of musical repertoire. A principal outcome of this course is an increased awareness of the elements of musical form and how they are important in developing insight, understanding, and interpretation of a musical work.

Prerequisite(s):

MUS 304 Minimum Grade: C- or T
AND

MUS 308 Minimum Grade: C- or T

MUS 340 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 241 Minimum Grade: C- OR T

MUS 341 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 340 Minimum Grade: C- OR T

MUS 342 - Applied Music - Composition

2 Credit(s)

This course will provide private instruction in advanced music composition including orchestration techniques. May be repeated for credit (four hours maximum). This course requires instructor approval for registration purposes.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T
AND

MUS 243 Minimum Grade: C- OR T

MUS 343 - Applied Music - Composition

2 Credit(s)

This course will provide further private instruction in advanced music composition including polyphonic and non-tonal techniques. May be repeated for credit (four hours maximum). This course requires instructor approval for registration purposes.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T
AND

MUS 342 Minimum Grade: C- OR T

MUS 345 - Junior Recital

1 Credit(s)

Preparation and presentation of a public recital of approximately one-half hour of music.

Prerequisite(s):

MUS 340 Minimum Grade: C- OR T
OR

MUS 341 Minimum Grade: C- OR T

Co-requisite(s): MUS 341

MUS 360 - Conducting Techniques

2 Credit(s)

Development of fundamental conducting skills, score reading skills, musical concepts, and terminology.

Prerequisite(s):

MUS 204 Minimum Grade: C- OR T
AND

MUS 208 Minimum Grade: C- OR T

MUS 364 - Accompanying Practicum I

2 Credit(s)

Training for the advanced pianist in vocal and instrumental accompanying skills, and related skills for dance accompanying.

Prerequisite(s):

MUS 241 Minimum Grade: C- OR T

MUS 365 - Accompanying Practicum II

2 Credit(s)

Training for the advanced pianist in vocal and instrumental accompanying skills, and related skills for dance accompanying.

Prerequisite(s):

MUS 364 Minimum Grade: C- OR T

MUS 375 - Music Recording Techniques

3 Credit(s)

This course serves as an introduction to audio and MIDI recording techniques, with topics to be covered including digital audio recording, microphones and microphone setup, digital editing and mixing, audio effects such as compression, reverb, and EQ, MIDI recording, and film scoring techniques. There will be extensive use of the program Cubase in this course. The goal of this course is to provide students with the basic techniques and tools to use recording technology in their musical careers.

Prerequisite(s):

MUS 101: Minimum grade C- or T
and

MUS 103: Minimum grade C- or T

and

MUS 104 : Minimum grade C- or T

or

Instructor Permission

MUS 376 - Topics in Music Business

3 Credit(s)

Topics in Music Business will introduce students to the business aspects of the music industry including market and promotion, copyright law, publishing, contracts, licensing, management, concert promotion and production, profit and non-profit arts organizations, grant writing and fundraising.

MUS 377 - Music Industry Internship

3 Credit(s)

This course is designed to provide practical experience for advanced students in the Music Industry emphasis. Students will further develop competencies in business or recording related areas of the industry while providing practical application of theories, techniques, and concepts discussed in other courses. Students are required to be successfully admitted to upper divisional study, and Senior Standing (90 more hours completed). An approved Internship Application and current resume/references will also be submitted prior to registering in this class.

Prerequisite(s):

MUS 103 C-, MUS 375 C-, MUS 376 C-, MUS 378 C- Permission of Instructor.

MUS 378 - Music Recording Seminar

2 Credit(s)

This course is a project-based course with focus on discussion of projects, recording and mixing techniques, and critical listening to recordings. Students will work on semester-long recording projects in the ASU recording studio and participate in class discussion on these projects..

Prerequisite(s):

MUS 103 Minimum Grade: C- OR T
AND

MUS 375 Minimum Grade: C- OR T

MUS 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

MUS 380 - Commercial Music Composition and Production I

1 Credit(s)

The course will provide seminar-like instruction in commercial music composition (pop, rock, R&B, etc...) and production techniques. Students will work individually or in groups in the ASU recording studio on completing at least one finished composition and recording.

Prerequisite(s):

MUS 103 Minimum Grade: C-
AND

MUS 375 Minimum Grade: C-

AND

MUS 378 Minimum Grade: C-

MUS 381 - Commercial Music Composition and Production II

1 Credit(s)

This course will provide seminar-like instruction in commercial music composition (pop, rock, R&B, etc.), music production techniques, and composing for film trailers and video games. Students will work individually or in groups in the ASU recording studio on completing two film and video game projects and one individual composition and recording in a genre of the students choice.

Prerequisite(s):

MUS 103 Minimum Grade: C- OR T

AND

MUS 375 Minimum Grade: C- OR T

AND

MUS 378 Minimum Grade: C- OR T

MUS 392 - Workshop

0.5 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

MUS 399 - Independent Study (Practicum)

3 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

MUS 410 - Mariachi Ensemble

1 Credit(s)

Open to all qualified students by audition, regardless of major field. Music chosen from standard mariachi repertoire. May be repeated for credit. Audition and permission of instructor required for registration.

MUS 421 - Elementary School Music Methods

3 Credit(s)

A comprehensive study of principles, procedures and pedagogical approaches for teaching and administering music programs in elementary schools (grades K-6). A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be

obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation. Students must be enrolled in the Teacher Education Program.

Prerequisite(s):

ED 200 Minimum Grade: C OR T
AND

ED 220 Minimum Grade: C OR T

AND

MUS 304 Minimum Grade: C OR T

AND

MUS 360 Minimum Grade: C OR T

AND

Admission to the Educator Preparation Program

AND

Teacher Education Background Check Passed

MUS 422 - Secondary School Music Methods

3 Credit(s)

A comprehensive study of principles and procedures for teaching and administering music programs in secondary schools (grades 7-12). A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation. Students must be enrolled in the Teacher Education Program.

Prerequisite(s):

ED 200 Minimum Grade: C OR T
AND

ED 220 Minimum Grade: C OR T

AND

MUS 304 Minimum Grade: C OR T

AND

MUS 360 Minimum Grade: C OR T

AND

Admission to the Educator Preparation Program

AND

Teacher Education Background Check Passed

MUS 423 - Choral Literature and Methods

3 Credit(s)

A study of choral literature and rehearsal techniques appropriate for secondary school choral ensembles, including resource materials, techniques for choral sound production, and effective teaching strategies.

Prerequisite(s):

MUS 304 Minimum Grade: C- OR T
AND

MUS 360 Minimum Grade: C- OR T

Co-requisite(s): MUS 422

MUS 424 - Instrumental Literature and Methods

3 Credit(s)

A study of instrumental literature and rehearsal techniques appropriate for secondary school instrumental ensembles, including resource materials, techniques for ensemble development, and effective teaching strategies.

Prerequisite(s):

MUS 304 Minimum Grade: C- OR T
AND

MUS 360 Minimum Grade: C- OR T

Co-requisite(s): MUS 422

MUS 425 - Opera Literature

3 Credit(s)

A study of operatic masterpieces from the origins of the form to the present.

MUS 426 - Song Literature

3 Credit(s)

Historic survey of the art of song.

MUS 427 - Instrumental Lit and Pedagogy

3 Credit(s)

Historical survey of the student's own instrumental category (either woodwinds, brass, percussion, guitar or strings) and a study of the pedagogical techniques for that instrumental category.

MUS 428 - Piano Literature and Pedagogy

3 Credit(s)

Historical survey of the repertoire for piano and a study of pedagogical techniques for the piano.

MUS 429 - Voice Literature and Pedagogy

3 Credit(s)

A study of pedagogical techniques and vocal problems and the assignments of appropriate literature. A survey of materials include treatises, technique books, physiological books, repertoire, and other areas relevant to singing and to the teaching of singing.

MUS 440 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (four hours maximum).

Prerequisite(s):

MUS 341 Minimum Grade: C- OR T
AND

MUS 345 Minimum Grade: C- OR T

MUS 441 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (four hours maximum).

Prerequisite(s):

MUS 345 Minimum Grade: C- OR T
AND

MUS 440 Minimum Grade: C- OR T

MUS 444 - Senior Project - Composition

2 Credit(s)

A course for the development and creation of a work for orchestra or wind ensemble. Orchestration techniques will be explored. Analysis of works within the genres will be examined and discussed. A significant written project on some aspect of contemporary music will be required. This course requires instructor approval for registration purposes.

Prerequisite(s):

MUS 343 Minimum Grade: C- OR T

MUS 445 - Senior Recital

2 Credit(s)

Preparation and presentation of a public recital of approximately forty-five minutes of music. Must be taken concurrently with MUS 440 or MUS 441.

Prerequisite(s):

MUS 440 Minimum Grade: C- OR T
AND

MUS 441 Minimum Grade: C- OR T

MUS 446 - Jazz Ensemble

An advanced instrumental jazz ensemble, open by audition to junior and senior students who perform a significant leadership role in the ensemble. Repertoire is selected from a variety of jazz styles and periods. May be repeated for credit.

MUS 447 - Concert Choir

1 Credit(s)

This course is open to all qualified juniors and seniors, regardless of major, who perform a significant leadership role in the ensemble. Repertoire is selected from standard choral concert literature, as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

MUS 448 - Jazz Singers

An advanced vocal jazz ensemble, open by audition to junior and senior students who perform a significant leadership role in the ensemble. Repertoire is selected from a variety of jazz and periods. May be repeated for credit.

MUS 449 - Chamber Music

1 Credit(s)

Selected groups including instrumental, vocal and mixed ensemble for performance of music in specific periods and mediums, open by audition to junior and senior students who perform a significant leadership role in the ensemble. May be repeated for credit.

MUS 450 - Orchestra

1 Credit(s)

Open by audition to Junior and Senior students who perform a significant leadership role in the orchestra. Repertoire is selected from standard orchestral literature. May be repeated for credit.

MUS 451 - Concert Band

1 Credit(s)

This course is open to all qualified juniors and seniors, regardless of majors field, who demonstrate sufficient ability on

a standard wind or percussion instrument and perform a significant leadership role in the ensemble. May be repeated for credit.

MUS 455 - Wind Ensemble

1 Credit(s)

An advanced mixed instrumental ensemble, open by audition to junior and senior students who perform a significant leadership role in the ensemble. Repertoire is selected from standard and contemporary wind ensemble literature. May be repeated for credit.

MUS 457 - Chamber Choir

1 Credit(s)

This course is an advanced mixed choral ensemble, open by audition to junior and senior students who perform a significant leadership role in the ensemble. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

MUS 460 - Advanced Choral Conducting

2 Credit(s)

Advanced techniques for the choral conductor.

Prerequisite(s):

MUS 360 Minimum Grade: C- OR T

MUS 461 - Advanced Instr Conducting

2 Credit(s)

Advanced techniques for the instrumental conductor.

Prerequisite(s):

MUS 360 Minimum Grade: C- OR T

MUS 475 - Music Recording Capstone

2 Credit(s)

The course will provide specialized focus and instruction on a project relating to music recording that aligns with the student's desired career path.

Prerequisite(s):

MUS 103 C-, MUS 375 C-, MUS 376 C-, MUS 378 C- Permission of Instructor.

MUS 476 - Music Business Capstone

2 Credit(s)

The course will provide specialized focus and instruction on a project relating to music business and/or recording that aligns with the student's desired career path.

Prerequisite(s):

MUS 103 Minimum Grade: C-

MUS 479 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

MUS 486 - Marching Band Techniques

2 Credit(s)

Designed to help the band director chart marching band shows and deal with the logistics and techniques needed to manage the marching band.

Prerequisite(s):

MUS 422 Minimum Grade: C- OR T

MUS 492 - Workshop

0.5 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

MUS 499 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

MUS 579 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

MUS 592 - Workshop

0.5 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

MUS 599 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Chair.

NURS 179 - Special Topics

0.5 to 9 Credit(s)

Offered periodically to meet student special interests in the field.

NURS 179C - Special Topics Clinical

2 Credit(s)

Offered periodically to meet student special interests in the field.

NURS 201 - Math for Nursing

1 Credit(s)

This course is designed to assist the student with becoming very comfortable with drug calculations using dimensional analysis. Topics to be discussed include: basic math review, metric system and medication calculations, reconstituted medications, parenteral medication calculations, reconstituted medications, parental medication calculations, oral and injectable calculations, and medications for infants and children. Student must be enrolled in the ASU four year baccalaureate program and successful completion of all previous level courses.

NURS 202 - Nursing Informatics

1 Credit(s)

This course examines the history of healthcare informatics, current issues, basic informatics concepts and health information management systems. The use of technology to help make decisions and to improve the health status of the individual, family, and community will be emphasized. Students will apply informatics concepts to a current clinical practice setting suggesting methods to use technology to improve patient safety and work effectiveness. The student will also learn to identify gather, process, and manage information/data. Student must be enrolled in the ASU four-year baccalaureate program and successful completion of all previous level courses.

NURS 206 - Pathophysiology

4 Credit(s)

This course provides an overview of pathophysiological processes across the major organ systems. It is divided into two content areas: general concepts and specific disease processes. General concepts include the topics of cellular environment, genetics, stress and disease, immunity, inflammation, and cellular proliferation. Common disease processes from the major organs systems are presented. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 207 - Health Assessment

3 Credit(s)

The course will focus on the theoretical and practical aspects of acquiring data through a client health history and physical examination through the life span. A laboratory portion will consist of demonstration and actual wellness assessment with identification of needs. Students will be responsible for independent clinical health assessments and case studies. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 208 - Pharmacology

4 Credit(s)

The course will provide an in-depth perspective of the pharmacokinetics and pharmacodynamics of medications. The students will learn to consider body weight, age, body composition, and circulatory dynamics when analyzing the drug's effect. Other topics to be included in this course include therapeutic effects, side effects, toxic effects, idiosyncratic reactions, drug tolerance, drug interactions and drug dose response. Discussion will focus on the physiological action and effect of selected drug groups, and factors that will influence the drug actions such as physiological variables, environmental conditions, psychological factors and diet. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 211 - Professional Practice

2 Credit(s)

This course will emphasize an in-depth exploration of the development of health care policy in the United States. The evolution of public and private healthcare insurance and the societal implications of these policies will be analyzed. Students will understand the U.S. healthcare delivery system to determine how social, political, legal, economic policy and regulatory factors affect health disparities. Access to healthcare for the American people will be addressed. Critical thinking skills will be developed to understand future trends and changes affecting healthcare delivery policy and nursing practice. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 279 - Special Topics

0.5 to 8 Credit(s)

Offered periodically to meet student special interests in the field.

NURS 292 - Workshop

0.5 to 8 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

NURS 302 - Nursing Informatics

3 Credit(s)

This course examines the history of healthcare informatics, current issues, basic informatics, current issues, basic informatics concepts and health information management systems. The use of technology to help make decisions and to improve the health status of the individual, family and community will be emphasized. Students will apply informatics

concepts to a current clinical practice setting suggesting methods to use technology to improve patient safety and work effectiveness. The student will also learn to identify, gather, process, and manage information/data. Students must be enrolled in the ASU four-year baccalaureate program and successfully complete all previous block courses.

NURS 305 - Transcultural Nursing

3 Credit(s)

This course provides a theoretical framework for the delivery of culturally competent nursing care. The course will enable the nurse to navigate through the obstacles that culture can place on the patient/family experience. Through a presentation of the history and theory behind cultural competence in nursing, the course offers key information regarding health beliefs and the impact of culture on both health and illness. Students must be enrolled in the ASU RN to BSN online program.

NURS 309 - Nursing Fundamentals

6 Credit(s)

This course will focus on the nursing process as a strategy for making clinical judgments and implementing care. The student will learn basic concepts in nursing as a framework for future course work. An emphasis will be placed on critical thinking and evidence based application of concepts taught. The lab hours will focus on concepts learned and are the foundation for developing nursing skills. Practice will take place in both the classroom and the simulation lab. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 309C - Nursing Fundamentals Clinical

3 Credit(s)

This course focuses on concepts learned in Nursing Fundamentals and Nursing Fundamentals Lab as a strategy for making clinical judgments and implementing care. Practice will take place in both the actual clinical setting and the simulation lab. The student will learn basic concepts in nursing as a framework for future course work. An emphasis will be placed on critical thinking and evidence based application of concepts taught. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 310 - Medical Surgical Nursing I

4 Credit(s)

Emphasis in this course is on the transition from student to the professional nursing role of the Baccalaureate prepared nurse. This course is a comprehensive study of concepts related to critical thinking, culture, pain and end of life issues. Also considered is substance abuse, fluid, electrolyte and acid-base balance, safety, oxygenation, tissue perfusion, cardiac output. The various interrelationships among systems are highlighted. The application of the nursing process and evidence based criteria will be used in the care of stable adult patients in a clinical setting. The lab hours will focus on concepts learned and are the foundation for developing advanced nursing skills. Practice will take place in both the classroom and the simulation lab. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 310C - Medical / Surgical Nursing I Clinical

4 Credit(s)

Emphasis in this course is on the transition from student to the professional nursing role of the Baccalaureate prepared nurse. This course focuses on concepts learned in Medical Surgical Nursing I as a strategy for making clinical judgments and implementing care. Practice will take place in both the actual clinical setting and the simulation lab. The student will learn basic concepts in nursing as a framework for future course work. An emphasis will be placed on critical thinking and evidence based application of concepts taught. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 311 - Care of the Older Adult

2 Credit(s)

This course will consider the unique set of principles and body of knowledge and skills necessary to care for the older adult. Students are provided with the theoretical background necessary to understand health system issues affecting older adults; comprehensive assessment of physical, functional, psychosocial, and cognitive capacities; and to consider, in detail, common problems associated with cardiovascular, respiratory, neurological, musculoskeletal, sensory, and genitourinary systems that affect older adults. In addition, principles of continuity of care, rehabilitation, nutritional and pharmacodynamic changes, diversity and ethics will be integrated throughout the course. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 314 - Health Care Ethics

2 Credit(s)

This course will focus on the moral and ethical dimensions of nursing practice and in health care today. Topics to be explored include biomedical technological advances, quality of life, and ethical theories and principles, client advocacy, skill competency, informed consents, advanced directives and nursing accountability. The students will also discuss how values, emotions, faith, spiritual beliefs influence ethical decision-making. The law, culture, gender, generational issues, as well as male and female roles are considered in the setting of an ethical dilemma. A systematic approach to resolving ethical issues and the role of an Ethics Committee as a resource are presented. Discussion will also take place regarding the Nursing Code of Ethics and its effect on nursing practice. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 315 - Rural/Community Health

2 Credit(s)

This course examines the role of the nurse in promoting the health of aggregates, families, and individuals. The concept of community as client is emphasized. The core public health functions of assessment, policy development, and assurance are explored through student involvement in the legislative process, family assessment, community assessment, case management, health teaching, and the investigation of communicable diseases. The provision of nursing care in a rural setting will also be examined.

NURS 315C - Rural / Community Health Clinical

2 Credit(s)

This course will allow students to address the concerns and health needs of the community. In a collaborative effort between the community and ASU, the students will apply knowledge gained through nursing academic coursework to implement a plan for those health concerns. Emphasis will be placed on developing interpersonal skills and achieving

social changes that influence health and quality of life. The course includes an extensive clinical practicum within a public health setting with emphasis on nursing in a rural community.

NURS 316 - Nursing Research

2 Credit(s)

This course will provide an introduction to the research process including design and methodology. Interpretation and critique of research findings for use in nursing practice are emphasized. Research questions relevant to clinical practice are identified. This course emphasizes critical analysis of existing research to support data-driven decisions and implementation of evidence-based practice. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 320 - Nursing Ethics

3 Credit(s)

This course examines the legal and ethical aspects of the nurse's role in the delivery and management of health care. This course emphasizes the collaborative nurse-patient relationship along with decision-making approaches and models, rationale for decisions, and the management of care for various ethical situations that occur in nursing practice. Students will engage in role-play activities to learn how to respond to ethical conflicts among healthcare team members in clinical settings. Students must be enrolled in the ASU RN to BSN online program or ADN Dual Enrollment program.

NURS 325 - Geriatric Nursing

3 Credit(s)

This course considers the unique set of principles and body of knowledge and skills necessary to the practice of geriatric nursing. Students are provided with the theoretical background necessary to understand health system issues affecting older adults; comprehensive assessment of physical, functional, psychosocial, and cognitive capacities. In addition, principles of continuity of care, rehabilitation, nutritional and pharmacodynamic changes, diversity and ethics will be integrated throughout the course. Students must be enrolled in the ASU RN to BSN completion program to register in this course.

NURS 330 - Nursing Leadership

3 Credit(s)

This course examines the nurse as a leader in a variety of contexts and settings. The course provides the nurse with skills needed to ensure that employing organizations are guided accurately and effectively through periods of transformation. The course also provides strategies for handling challenges that arise in health care organizations in order to better assist nurse leaders in creating a healing environment for both consumers and healthcare providers. Students must be enrolled in the ASU RN or BSN online program or ADN Dual Enrollment program.

NURS 340 - Financial Management in Nursing

3 Credit(s)

This course explores economic issues relevant to nursing practice and health care. The course uses a systems approach to analyze the financial impact of health care decisions. The course further assesses the financial implications of

nursing decisions from a clinical perspective. Topics include a myriad of financial concepts that range from staffing and budgeting to measuring productivity and forecasting costs. The goal of the course is to enable nurses in managerial roles to implement change without negatively affecting patient care outcomes. Students must be enrolled in the ASU RN to BSN online program.

Prerequisite(s):

NURS 330 Minimum Grade: C- OR T

NURS 350 - Global Health Nursing

3 Credit(s)

The course uses a multidisciplinary perspective to explore global issues affecting personal, community, and international health and development using approaches from health promotion, population health, and primary health care to help frame analyses. Students are exposed to basic perspectives on health policy issues throughout various geographical regions and how they are affected by significant world events. Students must be enrolled in the ASU RN to BSN online program or ADN Dual Enrollment program.

NURS 379 - Special Topics

0.5 to 8 Credit(s)

Offered periodically to meet student special interests in the field.

NURS 379C - Special Topics

0.5 to 8 Credit(s)

Offered periodically to meet student special interests in the field.

NURS 392 - Workshop

0.5 to 8 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

NURS 404C - Service Learning Clinical

2 Credit(s)

The Service Learning project will provide the student with a unique opportunity to further develop the nursing role as a responsible and caring professional. In providing service to an agency or aggregate of clients, the ASC nursing student will apply and integrate concepts learned from previous coursework in the arts, sciences, humanities, and nursing in meaningful ways. The Service Learning project will enhance the ASC Nursing Program mission with its focus on cultural diversity, community service, and rural health care. Students must be enrolled in the ASC four year baccalaureate program and successfully complete all previous block courses to register for this class.

NURS 407 - Obstetric Nursing

3 Credit(s)

This course will provide a family-centered approach to professional nursing practice of the childbearing family from pre-conception through postpartum including newborn care. Nursing care of the woman throughout the lifespan will be presented. The impact of psychosocial and cultural values and practices will be explored. Legal and ethical accountability will be integrated throughout the course. The learner will develop specific cognitive and psychomotor competencies which will be demonstrated in an effective performance in both a skills/simulation lab and clinical area. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 407C - Obstetric Nursing Clinical

2 Credit(s)

Emphasis in this course will be on the transition from student to the professional nursing role of the Baccalaureate prepared nurse. This course is the application of skills related to caring for obstetrical and gynecological patients. Critical thinking skills will be learned and applied to visualizing complex problems and interrelationships found in the care of obstetrical and gynecological patients in a clinical setting. The application of the nursing process and evidence based criteria will be used in this process. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 408 - Pediatric Nursing

3 Credit(s)

This course will provide a family-centered approach to professional nursing practice of children from birth through adolescence across the health continuum. The impact of psychosocial and cultural values and practices are explored. Legal and ethical accountability are integrated throughout the course. The learner will develop specific cognitive and psychomotor competencies which will be demonstrated in an effective performance in both a skills/simulation lab and clinical area. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 408C - Pediatric Nursing Clinical

2 Credit(s)

This course will apply skills related to caring for pediatric patients across the health continuum. Critical thinking skills will be learned and applied to complex problems and interrelationships found in the care of pediatric patients in the clinical setting. The application of nursing process and evidence based criteria will be used in this process. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 409 - Psychiatric Nursing

2 Credit(s)

The student will explore concepts in promoting and maintaining mental health in the individual, family, group and the community. Mental health assessment, health promotion and roles and responsibilities within the profession of psychiatric nursing will be introduced. This course emphasizes communication and caring through the application of communication skills, the therapeutic relationship and nursing process in the care and treatment of common clinical conditions/disorders in the realm of mental health nursing. The interconnection of medical and mental health symptoms will be addressed. Health care trends related to primary health care, determinants of health and wellness are examined. Concepts of crisis, comfort, anger, hope, loss, power, resiliency and integrity will be introduced. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 409C - Psychiatric Nursing Clinical

2 Credit(s)

This course will allow the student to apply the various concepts learned in NURS-409 and other nursing courses to patients in both acute psychiatric settings and various community settings. Students will incorporate critical thinking, the nursing process and evidence based guidelines for the care of the psychiatric patient. Health and safety needs within the psychiatric setting will be explored. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 410 - Nursing Research

3 Credit(s)

This course stresses the role of the nurse as a researcher and a researcher consumer. It includes both quantitative and qualitative research. Skills necessary to critically read and evaluate nursing research and to use the results of research in practice and developed in this course. The historical, legal, and ethical aspects of nursing research are considered. This course also focuses on the evaluation and utilization of research and other sources of knowledge necessary to address patient needs and provide quality care. Course content covers methods, appraisal, and utilization of research findings toward the goal of implementing best practices. Barriers to the use of evidence-based practice as well as facilitating innovations within the workplace are addressed. Student must be enrolled in the ASU RN to BSN online program or ADN Dual Enrollment program.

Prerequisite(s):

PSYC 211 Minimum Grade: C OR T

NURS 414C - Nursing Internship

6 Credit(s)

This course will be an integration of previous nursing and general education coursework. This course will include an intensive content exam review and field experience in an area of nursing interest to the student and comprehensive simulation lab experiences at the end of the course. Critical thinking and evidence based practice will be emphasized and evaluated through theory course content review tests and in the clinical environment by a preceptor. In addition, the simulation environment may be used as a part of evaluation. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 415 - Nursing Management

3 Credit(s)

The focus of this course will be on the theories of nursing management and leadership and their application to work practices. Content will include the basic functions of management: planning, organizing, and directing. Topics such as decision-making, change, budgeting, conflict resolution and personnel issues will be explored. The students will concentrate on critical decision making and formulating independent nursing judgments in complex nursing situations. Content will also focus on supervisory skills and collaboration with other members of the health care team in the structured (hospital or nursing home) or unstructured (community assessments) health care settings. Students must be enrolled in the ASU four year baccalaureate nursing program and successfully complete all previous level courses.

NURS 415C - Nursing Management Clinical

2 Credit(s)

Application of nursing leadership and management principles learned in NURS-415 will be the focus of this course. Application of concepts learned take place in the clinical setting. Critical thinking and evidence based practice will be emphasized.

NURS 416 - Medical Surgical Nursing II

4 Credit(s)

This course is a comprehensive study of concepts related to problems of the cardiovascular, peripheral vascular, respiratory, hematological, and endocrine systems. Various interrelationships of these concepts will be explored as it concerns stable and unstable adult patients. The application of the nursing process and evidence based criteria will be presented as these processes refer to the care of adult patients. The lab hours will focus on concepts learned and are the foundation for developing advanced nursing skills. Practice will take place both in the classroom and the simulation lab.

NURS 416C - Medical /Surgical Nursing II Clinical

4 Credit(s)

In this course, concepts related to problems of the cardiovascular, peripheral vascular, respiratory, hematological, and endocrine systems will be explored. The various interrelationships among these concepts found in both stable and unstable adult patients in a clinical setting will be emphasized. The application of the nursing process and evidence based criteria will be used in the care of adult patients in both a clinical setting and a simulation lab.

NURS 417A - Service Learning A

0.5 Credit(s)

The Service Learning project will provide the student with a unique opportunity to further develop the nursing role as a responsible and caring professional. In providing service to an agency or aggregate of clients, the ASU nursing student will apply and integrate concepts learned from previous coursework in the arts, sciences, humanities, and nursing in meaningful ways. The Service Learning project will enhance the ASU Nursing Program mission with its focus on cultural diversity, community service, and rural health care. This course introduces the student to community collaboration and selection of a service project.

NURS 417B - Service Learning B

0.5 Credit(s)

The Service Learning project will provide the student with a unique opportunity to further develop the nursing role as a responsible and caring professional. In providing service to an agency or aggregate of clients, the ASU nursing student will apply and integrate concepts learned from previous coursework in the arts, sciences, humanities, and nursing in meaningful ways. The Service Learning project will enhance the ASU Nursing Program mission with its focus on cultural diversity, community service, and rural health care. This course is an ongoing course from NURS 417A. This course will continue the project development established in NURS 417A. The student will research the importance and effectiveness of project selected in the identified community/agency.

Prerequisite(s):

NURS 417A Minimum Grade: C

NURS 417C - Service Learning C

1 Credit(s)

The Service Learning project will provide the student with a unique opportunity to further develop the nursing role as a responsible and caring professional. In providing service to an agency or aggregate of clients, the ASU nursing student will apply and integrate concepts learned from previous coursework in the arts, sciences, humanities, and nursing in meaningful ways. The Service Learning project will enhance the ASU Nursing Program mission with its focus on cultural diversity, community service, and rural health care. The student will use research and supportive evidence gathered in NURS 417B to implement the selected service project. The result of this project will result in a sustained impact for the selected agency or community. In addition, the student will provide a reflection of this experience from project identification, research, development and implementation.

Prerequisite(s):

NURS 417A Minimum Grade: C
AND

NURS 417B Minimum Grade: C

NURS 420 - Introduction to Managed Health Care

3 Credit(s)

This course is designed to familiarize the nurse with the broader context of the healthcare system within which the nurse works. The course reviews key strategic, tactical, and operational aspects of managed health care. The implications of health insurance not only in the commercial sector, but also with Medicare, Medicaid, and military health care are analyzed. Student must be enrolled in the ASU RN to BSN online program.

NURS 430 - Health Assessment Experienced Nurse

3 Credit(s)

This course emphasizes the skills essential to the assessment parameter of the nursing process. The purpose of this course is to broaden the learners' knowledge base, to increase their assessment skills, and to facilitate their ability to apply these skills in a clinical setting. The knowledge from this course is immediately applicable to everyday patient care. Students must be enrolled in the ASU RN to BSN online program.

NURS 440 - Professional Practice Role Development Nursing

3 Credit(s)

This course facilitates the development and implementation of strategies to enable the synthesis of professional development for the nurse. The course enables the student to recognize and understand the critical role that nurses play in health care delivery. Students will analyze principles practice and will explore strategies to model the professional practice role in current clinical situations. Students must be enrolled in the ASU RN to BSN online program or ADN Dual Enrollment program.

NURS 450 - Introduction to Case Management

3 Credit(s)

This course examines case management from a variety of perspectives and settings. Students will apply principles of

care coordination to a current clinical setting. The course will facilitate analysis of the advantages and disadvantages of current models of care coordination. Students must be enrolled in the ASU RN to BSN online program.

NURS 460 - Community Health Nursing

3 Credit(s)

This course explores the demands of the dynamic health care system that require nurses to have an understanding of both community health nursing and population-focused practice. Nurses must be able to span systems of care and focus on the needs of aggregates, no matter where health care services are provided and/or needed. This course further explores population-focused decision making, community-based strategies for health promotion and disease prevention, primary care services, and disaster prevention and planning which are emerging issues at the forefront of healthcare services. Students must be enrolled in the ASU RN to BSN online program.

Prerequisite(s):

NURS 430 Minimum Grade: C AND T

Co-requisite(s): NURS 470

NURS 470 - Nursing Capstone

3 Credit(s)

This course provides the student with a synthesis practicum experience designed in collaboration with a faculty member and community representative, and completed within an appropriate health care or community based care setting. Students will integrate knowledge of evidence-based practice, quality and safety initiatives, leadership, and all previous coursework to design, implement, and lead an interdisciplinary team project to improve client outcomes. The project must demonstrate ability to synthesize and apply the knowledge and skills acquired in the RN to BSN program to real-world nursing issues and problems. This final project demonstrates student's ability to think critically and creatively, to solve practical problems related to nursing practice or the facilitation of patient-centered care, to make reasoned and ethical decisions, and to effectively communicate orally and in writing. Students must be enrolled in the ASU RN or BSN online program.

Prerequisite(s):

NURS 460 Minimum Grade: C OR T

Co-requisite(s): NURS 460

NURS 479 - Special Topics

0.5 to 8 Credit(s)

Offered periodically to meet students' special interests in the field.

NURS 479C - Special Topics

0.5 to 8 Credit(s)

Offered periodically to meet student special interests in the field.

NURS 492 - Workshop

0.5 to 8 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

OES 101 - Outdoor Recreation Essentials

3 Credit(s)

This course is a general introduction to outdoor recreation history, theories, natural resource management, and current trends in the outdoor recreation industry . Students are also introduced to essential outdoor skills for camping and backpacking including trip planning, equipment selection and care, food preparation, Leave No Trace environmental ethics, and risk management. Field trips are required including overnight trips.

OES 121 - Introduction to Rock Climbing

1 Credit(s)

This course is an overview of the techniques, concepts, and practices of outdoor rock climbing. Students will learn the technical skills necessary to be successful in a single pitch sport climbing event.

OES 122 - Introduction to Canoeing and Stand-up Paddleboard (SUP)

1 Credit(s)

This course is designed to give students a foundation of skills for running non-whitewater rivers in a canoe or Stand-up Paddleboard (SUP). Students will learn basic paddling skills, river reading, equipment selection and use, and rescue techniques.

OES 123 - Introduction to Mountain Biking

1 Credit(s)

This course will provide students the fundamental skills necessary to ride a mountain bike. Participants will go through all of the beginner and intermediate skills required to handle a mountain bike as well as learn how to assess and navigate various terrain.

OES 124 - Introduction to Kayaking

1 Credit(s)

This course is designed to give students the fundamental skills for running class II rivers in a whitewater kayak. Students will learn basic paddling skills, river reading, equipment selection, and rescue techniques.

OES 125 - Winter Recreation Essentials

1 Credit(s)

This course introduces students to the essential knowledge and skills for winter travel and camping. Students will learn techniques for setting up camp and living outside in the snow giving student's confidence in their ability to enjoy recreation in the winter environment. Field trip is required.

OES 126 - Introduction to Ice Climbing

1 Credit(s)

This course is an introduction to the techniques, concepts, and practices of ice climbing. Students will learn basic skills including proper clothing selection, ice climbing equipment use and maintenance, route selection, and the fundamentals of movement on ice. Field trip required.

Prerequisite(s):

OES 121 Minimum Grade: P

OES 127 - Trail Stewardship

1 Credit(s)

This course is an introduction to the techniques, concepts, and practices of trail stewardship. Participation in a local volunteer trail project will be a primary part of this course.

OES 200 - Foundations of Outdoor Leadership

3 Credit(s)

This course is an overview of the history, theories, concepts, and practices that constitute outdoor leadership professional practice. Students learn a competency based approach to the development of an outdoor leader. Topics include historical and philosophical foundations of outdoor recreation and education, theories of leadership, judgment and decision making, teaching and facilitation, safety and risk management, and environmental stewardship. Field trips are required.

OES 261 - Outdoor Leadership Expedition

6 Credit(s)

This course is a field immersion experience to develop and practice outdoor leadership. Students participate in a two week backpacking expedition to learn and apply principles and strategies for minimum impact environmental ethics, risk management, teaching, and leadership. Field trips required.

Prerequisite(s):

OES 200 Minimum Grade: C-

OES 262 - Climbing Wall Instructor

1 Credit(s)

The Climbing Wall Instructor Course provides students with an in-depth and standardized understanding of the skills essential to teaching climbing in an indoor setting. It is the first step in a sequential approach to professional climbing instructor development. The course reinforces the importance of teaching technically accurate information and debunks many common climbing myths. The course emphasizes the presentation of sound fundamental skills to climbing gym participants, the formation of risk assessment and risk management skills and basic problem-solving skills such as belay transitions and on wall coaching and assist techniques.

Prerequisite(s):

OES 121 Minimum Grade: C-

OES 263 - Mountain Biking

2 Credit(s)

This intermediate level course provides students with an in-depth understanding of riding skills essential for more advanced riding. This course will cover mountain bike riding techniques, safety and risk management, maintenance, bike packing, and other intermediate to advanced biking skills. Field trips are required.

Prerequisite(s):

OES 123 Minimum Grade: P

OES 264 - Rock Climbing

2 Credit(s)

This course will build upon basic rock climbing skills and introduce a variety of techniques and systems to expand the climbers skill sets. Topics include climber safety, Leave No Trace for climbers, trip and route planning, equipment selection, protection and anchors, lead climbing, rappelling, 3rd and 4th class terrain, transitions, and basic assistance and rescue skills. Field trips are required.

Prerequisite(s):

OES 121 Minimum Grade: P

OES 265 - Ice Climbing

2 Credit(s)

This course will build upon basic ice climbing skills and introduce a variety of techniques and systems to expand the climbers skill sets. Topics include climber safety, Leave No Trace for ice climbers, trip and route planning, equipment selection and maintenance, protection and anchors, following and lead ice, rappelling, 3rd and 4th class terrain, transitions, and basic assistance and rescue skills. Field trips are required.

Prerequisite(s):

OES 126 Minimum Grade: C

OES 269 - Observing Nature

3 Credit(s)

Through field experiences both on campus and off, students learn to carefully observe the natural environment, identify local flora and fauna, and keep a naturalists field journal. Meets once a week for 2 hours. Field trips are required.

OES 270 - Whitewater Kayaking

2 Credit(s)

This course will cover whitewater skills for kayaking for rivers up to class III/IV whitewater. Course includes topics on boater safety, equipment use and care, paddling strokes and maneuvers, reading the river, setup of rapids, rescue skills,

planning river trips, planning kayaking trips. Field trips are required.

Prerequisite(s):

OES 124 Minimum Grade: P

OES 299 - Independent Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

OES 300 - Programming Lab

1 Credit(s)

Students meet weekly to plan recreational, skill development, and leisure programming for the campus community and/or for other SLV community groups. Students may also assist agencies and organizations in programming or other outdoor leadership related efforts. To apply and gain practical experience, students will practice designing, facilitating, and assessing programs through delivery of multiple programs. Students work with a faculty member for feedback, mentoring, and support.

Prerequisite(s):

OES 200 Minimum Grade: C-
AND

OES 261 Minimum Grade: C-

OES 310 - Snow Mountaineering

1 Credit(s)

This course is an introduction to climbing in the alpine environment. Students learn skills and techniques for travel on snow and in 3rd and 4th class terrain. Field trips are required.

Prerequisite(s):

OES 264 Minimum Grade: C-
AND

OES 265 Minimum Grade: C-

AND

OES 327 Minimum Grade: C-

AND

KIN 266 Minimum Grade: P

OES 327 - Snowpack and Terrain Assessment

3 Credit(s)

This course will introduce students to the complex decision-making required for navigating and recreating in the winter. This course includes topics on proper winter clothing and equipment, equipment use and care, avalanche terrain assessment, snowpack assessment, stability tests, avalanche forecasting, and companion rescue. Field trips are required.

Prerequisite(s):

OES 125 Minimum Grade: P
AND

OES 261 Minimum Grade: C-

OES 330 - Advanced Technical Course

2 Credit(s)

The advanced technical course builds upon a student's activity and site management skills. Students will advance their skills in a particular discipline learning more advanced techniques and systems and challenging their abilities. Topics will vary each semester between rock climbing, paddle sports, alpine climbing, canyoneering, bike packing, and ski mountaineering. Instructor approval required. Field Trips Required

Prerequisite(s):

OES 261 Minimum Grade: C-

OES 331 - Climbing Site Management

3 Credit(s)

This course develops student capabilities as instructors for rock and ice climbing programs. Emphasis is placed on the management of top-rope climbing sites and providing instruction for both rock and ice climbing. The course includes topics on technical systems, assistance and rescue skills, risk management for climbing sites, teaching climbing movement and basic skills, and assessment. Students will practice designing and leading climbing experiences in a variety of locations for rock and ice climbing. Field trips are required.

OES 332 - Paddle Sports Site Mngmnt

3 Credit(s)

This course will cover the management and instruction of whitewater paddling on rivers up to class III. Course includes topics on boater safety, equipment use and care, paddling strokes and maneuvers, reading the river, setup of rapids, rescue skills, planning river trips, designing paddling experiences, and managing clients. Field trips are required.

OES 333 - Outfitter and Guide Site Management

3 Credit(s)

This course will cover the application of program design and management skills to outfitting and guiding for hunting and fishing operations. Course includes content related to guide and client safety, equipment use and care, navigation, weather assessment, emergency response, trip planning and logistics, regulations and permitting, and maximizing client rewards. Field trips are required.

Prerequisite(s):

OES 200 Minimum Grade: C OR T
AND

OES 261 Minimum Grade: C OR T

OES 350 - Experiential Education

3 Credit(s)

This course explores the history and development of experiential education. Students learn and evaluate related learning theories and philosophies to inform and guide their practice as outdoor educators.

OES 367 - Experiential Learning and Facilitation

3 Credit(s)

This course explores the intersectionality of various disciplines that have influenced the field of experiential education. Students will consider distinctions between teaching and facilitation, wrestle with the challenges posed by the learning process, investigate the complexities involved in change and conflict, and develop skills for facilitating individual growth and group development. Additionally, students will practice facilitating group games, initiatives, meetings, challenges and other activities that focus on intrapersonal and interpersonal growth and development.

Prerequisite(s):

OES 200 Minimum Grade: C-

OES 370 - Wildland Recreation Management

2 Credit(s)

This course immerses students into the field of recreation ecology. Hands-on experience participating in local stewardship projects with federal and state agencies will be a component of the course. Students will gain knowledge and experience with how agencies and organizations identify recreational impact oriented problems, collect data, prioritize, allocate resources, and collaborate to accomplish conservation and stewardship objectives. Students will practice with professional approaches and strategies for planning and monitoring recreational use. Students are required to participate in a variety of learning experiences in various locations throughout the San Luis Valley.

Co-requisite(s): OES 370L

OES 370L - Wildland Recreation Management Field Lab

1 Credit(s)

This is the field based lab for OES 370. Students will travel off-campus to various sites for field application of course content, meeting with land managers, and conducting research.

Co-requisite(s): OES 370

OES 450 - Program Design and Management

3 Credit(s)

To manage an outdoor program, outdoor leaders must add to their field based competencies and experience specific skill sets for effective oversight, support, and leadership. Program managers are responsible for a variety of critical administrative functions that ultimately lead to the effective delivery and risk management of outdoor programs.

Students in this course will begin developing their administrative competencies including program design, risk management, budgeting, permitting, staff training, program assessment, incident response and more.

Prerequisite(s):

OES 200 Minimum Grade: C-
AND

OES 367 Minimum Grade: C-

OES 451 - Outdoor Education and Stewardship Internship

3 Credit(s)

To enhance and apply program skills, students will complete a 400-hour internship. To receive credit, students must document their hours and complete required internship assignments. Approval of internship by instructor is required.

Prerequisite(s):

OES 450 Minimum Grade: C-

OES 480 - Capstone Seminar in Outdoor Education and Stewardship

3 Credit(s)

In this course students will complete a signature project that demonstrates the culmination of their program work and experiences. During the course students will also investigate emergent trends, issues, and challenges related to outdoor education and recreation. Students will select a project of interest with the assistance of a faculty member. Project types include curriculum development, program design, original research, or volunteer service project. Students will also finalize and submit their ePortfolio.

Prerequisite(s):

OES 450 Minimum Grade: C-
AND

OES 451 Minimum Grade: C-

PBHL 100 - Foundations in Public Health

3 Credit(s)

Foundations in Public Health provides students with an overview of essential issues and components related to the field of public health.

PBHL 200 - Social Determinants of Health

3 Credit(s)

The course provides an overview of the social factors which are known to be the most powerful determinants of population health in modern societies, including income, education, race, gender, and support systems that interact to determine health across the lifespan.

Prerequisite(s):

PBHL 100

PBHL 300 - Rural Public Health

3 Credit(s)

This course will provide an overview of how Public Health systems operate in rural geographical areas. It provides students with a foundational understanding of rural communities. It then explores rural public health systems and policies, health disparities and special populations and concludes with a final section on advancing rural health through assessment, planning, and intervention.

Prerequisite(s):

PBHL 100

PBHL 498 - Public Health Capstone

3 Credit(s)

The Public Health Capstone course provides students with an opportunity to demonstrate synthesis and application of the cumulative skills in public health in a real-world work setting by developing a needed public health intervention. Students will work closely with an area non-profit or health agency to implement a public health intervention that addresses a need in the organization. They will concurrently work with peers and the course instructor to work through key stages of public health program planning and intervention. This course integrates the students classroom learning into a work environment. The student will work closely with a work based supervisor and instructor to identify a work plan that demonstrates accomplishment of program outcomes and specific Adams Outcomes.

Prerequisite(s):

PBHL 300

PHIL 179 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

PHIL 192 - Workshop

0.5 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

PHIL 199 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 202 - Ethics

3 Credit(s)

An examination of criteria governing ethical responses in typical situations as presented by representative thinkers. The application of principles in the development of reasonable standards of conduct and in the formulation of codes of ethics.

PHIL 203 - Philosophy of Religion

3 Credit(s)

Examination of the classical issues of religious thought, such as the existence of God, problem of evil, nature of religious language, life after death, and the pluralism of religious traditions.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

PHIL 279 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

PHIL 289 - Meaning of Life

3 Credit(s)

There are three answers to whether life has meaning, value, or significance. Supernaturalism holds that life is meaningful given a relationship with the divine, naturalism finds meaning in life though there are no gods, and nihilism argues that life has no meaning. Each of these answers will be explored in detail.

PHIL 292 - Workshop

0.5 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

PHIL 299 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

PHIL 300 - Philosophy in Film and Literature

3 Credit(s)

This course will approach film and literature as a manifestation of thought which contains and reveals philosophical reflection and inquiry. The course will provide an exploration of the particular medium that is film, rendering more accessible its unique ways of advancing meaning through the combined and controlled use of color, texture, sound, perspective, transitions, and time, as well as narrative content. Equally, literary pieces will provide an exploration of aspects of the human condition and significant philosophical inquiry through narration, symbolism, tone, and style. Topics to be explored include: Metaphysics, Epistemology, Social/Political Philosophy, Absurdism and Existentialism, Morality and Choice/Free Will, Self and Identity, and Aesthetics.

PHIL 303 - Chinese Philosophy

3 Credit(s)

A critical examination of the major philosophical traditions in China. The focus will be on the methodology and content of Chinese approaches to understanding nature, human nature, society, knowledge, and the good life.

PHIL 304 - Religions of the Western World

3 Credit(s)

A survey of major religious traditions of the west and their early influences. The course will cover but is not limited to Zoroastrianism, Mithraism, Manichaeism, Greek and Roman, Judaism, Christianity, Islam.

PHIL 320 - Water Ethics

3 Credit(s)

This class will explore the ethical concerns of water (re)production, usage, and distribution according to concepts of rights and responsibilities, socio-historical conditions, available resources, cultural usage, evaluation, and governance.

PHIL 323 - Atheism

3 Credit(s)

Examines the arguments, concepts, and objection to atheism. The course addresses atheism in the context of morality, cosmology, and the problems of evil, faith, science, and a meaningful life.

PHIL 324 - Existentialism

3 Credit(s)

Introduction to Existentialism by a close reading of some of its primary texts. Existentialism concerns itself with the problems of the individual coming to term with their own existence. The course will concern itself with the structure/nature of subjectivity, relationship between the individual and others, and the meaning of life. A special emphasis will be given to religious existentialism: the relationship between the individual and the divine.

PHIL 326 - Philosophies of Social Justice

3 Credit(s)

This course is designed to examine philosophies of social justice and critical analysis of various philosophical texts, which will strengthen creative thinking, communication skills, and writing skills. The course will focus on ancient to contemporary theories of justice with an emphasis on race, gender and sexuality, and health and the environment. It is also expected that students will have made significant progress toward becoming familiar with and adept at critical thinking, logical reasoning, and philosophical argumentation.

PHIL 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

PHIL 392 - Workshop

0.5 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

PHIL 399 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

PHIL 436 - American Thought

3 Credit(s)

The historical, philosophical, and literary ideas that have influenced American life and thought. Same as POLS 436.

PHIL 466 - Ancient Political Theory

3 Credit(s)

The first course of a two-semester course sequence designed to provoke philosophical reflection regarding the perennial, and still fundamental, questions about man in relation to the state. The first semester will focus on the period from Plato to St. Thomas. Same as POLS 467.

PHIL 467 - Modern Political Theory

3 Credit(s)

The second course of a two-semester course sequence designed to provoke philosophical reflection regarding the perennial, and still fundamental, questions about man in relation to the state. The second-semester course will treat thinkers for Machiavelli through Marx. Same as POLS 467.

PHIL 479 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

PHIL 492 - Workshop

0.5 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

PHIL 499 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

PHIL 579 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

PHIL 592 - Workshop

0.5 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

PHIL 599 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Chair.

PHYS 102 - Introduction to Engineering Design

2 Credit(s)

This course serves as an introduction to engineering design and should be taken by all students who have elected to pursue the pre-engineering curriculum at Adams State University or who have an interest in exploring engineering as a career. Students will be engaged in the design process throughout the entire course. Using LEGO Mechanical Engineering Set and the LEGO RCX Brick, students will learn about mechanical systems and design solutions to specific problems.

Prerequisite(s):

ACT Math - Minimum Score: 19

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2

3 Credit(s)

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

PHYS 179 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

PHYS 192 - Workshop

1 to 4 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

PHYS 199 - Individual Studies

1 to 5 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

PHYS 210 - Computer Aided Drafting

3 Credit(s)

This course examines the drafting/design field of mechanically oriented objects. Topics include multi-view drawings, sectioning, auxiliary views, exploded assemblies, working drawings, isometric drawings, oblique drawings, and illustration techniques, and each will be presented within the framework of computer aided drafting and design. No drafting experience is required or assumed. Some freehand drawing and sketching may be covered. This course may require additional laboratory time outside of class.

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the

first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 226 - College Physics II

5 Credit(s)

The second course of a two-semester lecture-laboratory sequence introducing the fundamental principles of physics. In the second semester, students will be introduced to the areas of electricity, electric circuits, optics, and topics in modern physics. Conceptual understanding as well as problem-solving techniques will be emphasized in the lecture. The laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture.

Prerequisite(s):

PHYS 225 Minimum Grade: C- OR T

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

PHYS 242 - Statics

3 Credit(s)

An application of translational and rotational equilibrium of physical structures. A few well understood basic principles will be used to analyze and solve problems in a logical manner. Vector algebra is introduced and is used throughout the course.

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T

PHYS 279 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

PHYS 292 - Workshop

1 to 4 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

PHYS 299 - Individual Studies

1 to 5 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

PHYS 300 - Electronics and Microcontrollers

4 Credit(s)

A combined lecture and laboratory course in electronics consisting of four laboratory contact hours and two lecture contact hours per week. The course is a study in operational amplifiers, TTL integrated circuits, and microcontroller interfacing and programming. The focus is on applications and circuit design. Offered in the fall of even years.

Prerequisite(s):

PHYS 226 Minimum Grade: C- OR T
OR

PHYS 232 Minimum Grade: C- OR T

PHYS 302 - Mechanics

4 Credit(s)

Advanced study of the laws of motion using Newtonian mechanics, an introduction to Hamilton's principle and lagrangian dynamics. Topics include systems of particles, linear and driven oscillators, central force motion, motion in non-inertial reference frames, and dynamics of rigid bodies. Offered spring term of odd years.

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

PHYS 231 Minimum Grade: C- OR T

AND

PHYS 232 Minimum Grade: C- OR T

AND

PHYS 233 Minimum Grade: C- OR T

AND

MATH 327 Minimum Grade: C- OR T

PHYS 304 - Electricity and Magnetism

4 Credit(s)

Advanced theory and applications of electrostatics and magnetostatics; steady currents; scalar and vector potentials; Gauss' Law, Laplace's equation; Ampere's and Faraday's law. This course is offered during the fall semester of odd years.

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T

AND

PHYS 231 Minimum Grade: C- OR T

AND

PHYS 232 Minimum Grade: C- OR T

AND

PHYS 233 Minimum Grade: C- OR T

AND

MATH 327 Minimum Grade: C- OR T

PHYS 306 - Modern Physics

4 Credit(s)

A survey of topics in modern physics including: special relativity, properties of electromagnetic radiation, and introduction to quantum mechanics with applications to barriers and atoms. Additional topics vary from year to year and may include statistical mechanics, solid state physics, properties on nuclei and their transformations, natural and induced radioactivity, and elementary particles. Offered spring semesters of even years.

Prerequisite(s):

PHYS 232 Minimum Grade: C- OR T

AND

MATH 121 Minimum Grade: C- OR T

AND

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 132 Minimum Grade: C- OR T

PHYS 320 - Planetarium Operation

2 Credit(s)

Techniques in the preparation and presentation of planetarium shows at the Zacheis Planetarium/Observatory.

Prerequisite(s):

Instructor approval for registration purposes

PHYS 330 - Numerical Methods for Scientists

4 Credit(s)

Numerical methods for solving physical problems including root finding, integration, differential equations, linear algebra, and Fourier methods. Students will learn to develop mathematical models for physical systems and then use spreadsheets and commercial software to quantitatively describe the behavior of those systems. Applications to real physical systems will be stressed.

Prerequisite(s):

PHYS 230 Minimum Grade: C-

AND

PHYS 231 Minimum Grade: C-

AND

MATH 121 Minimum Grade: C-

PHYS 379 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

PHYS 392 - Workshop

1 to 4 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

PHYS 399 - Individual Studies

1 to 5 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

PHYS 436 - Research in Physics

1 Credit(s)

The physics "capstone" experience. An independent research course tailored to meet the needs/desires of the student. The student will work with a professor on a research project either designed by the student and the professor. This course requires instructor approval for registration purposes.

PHYS 479 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

PHYS 492 - Workshop

1 to 4 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

PHYS 499 - Individual Studies

1 to 5 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

PHYS 579 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interest in the field.

PHYS 592 - Workshop

1 to 4 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

PHYS 599 - Individual Studies

1 to 5 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Chair.

POLS 179 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interest in the field.

POLS 192 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

POLS 199 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Chair.

POLS 280 - Introduction to Model UN

1 to 6 Credit(s)

This course provides a hands-on introduction to international diplomacy and the inner workings of the United Nations. Students will engage in simulations of current global debates on issues such as violent conflict, human rights and poverty.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

POLS 299 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Chair.

POLS 300 - Introduction to World Politics

3 Credit(s)

This course is of interest to students who want a better understanding of the international political arena. The course also helps students understand contemporary world affairs.

POLS 301 - Change Dynamics / International Relations

3 Credit(s)

This course is intended to supplement POLS 300, but can stand on its own. It introduces students to specific topics in the international arena.

POLS 303 - Current Political Issues

3 Credit(s)

This course examines current controversial political issues such as affirmative action, same sex marriage, abortion, capital punishment, cloning, pornography, censorship, religion in public schools, and immigration.

POLS 305 - Religion/Politics in the US

3 Credit(s)

This course examines the many ways that religion plays a role in American politics including church-state relations, public opinion and voting, political culture, and public policy.

POLS 306 - Campaigns and Elections

3 Credit(s)

This course is a study of elections and campaigns in the US. It focuses on the design and implementation of political campaigns, the behavior of different voter groups, and potential reforms of the electoral system.

POLS 307 - Introduction to World Governments

3 Credit(s)

This course is specifically designed to prepare education majors for the licensing exam. It is also of interest to history/political science students who want a better understanding of institutions and systems.

POLS 309 - Politics of the Middle East

3 Credit(s)

This course explores the histories, societies and politics of various countries of the Middle East and North Africa (MENA). Specific issues we will address throughout the semester include: Islam and politics; History, political culture and institutional politics; Intra-regional conflict; Democracy and human rights; Womens issues.

POLS 325 - Political Mvmnts/Latin America

3 Credit(s)

This course broadens students' understanding of Latin America by introducing them to their political aspirations and modes of organization.

POLS 351 - Congress / Presidency / Public Policy

3 Credit(s)

This course examines Congress, the legislative process, presidency, and how both influence the policy-making process, with emphasis on specific policies such as healthcare, education, crime, housing, and social welfare.

POLS 358 - Public Opinion & Socialization

3 Credit(s)

This course is an examination of public opinion and socialization in the United States. The focus of this course will be on the formation, content, and impact of public opinion on politics, elections, and policy.

POLS 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

POLS 380 - Model United Nations

3 Credit(s)

This course explores international diplomacy and the inner workings of the United Nations. It also provides a hands-on approach to current global debates on issues such as violent conflict, human rights and poverty.

POLS 385 - Politics and Media

3 Credit(s)

This course is the study of media and politics. Topics to be studied may include network and cable political shows, newspapers, campaign ads, entertainment media, the ways media influence the political process, individual opinion, and elections, and how politicians use media to win elections, govern, and make policy.

POLS 392 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

POLS 393 - Women, Politics, and Culture

3 Credit(s)

Interdisciplinary analysis of politics and culture. Course examines the role of gender in the political culture of the United States and selected societies in industrialized and developing nations. Of special interest to those wishing to pursue an interest in women's studies and/or cultural anthropology.

POLS 399 - Individual Studies

1 to 9 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Chair.

POLS 429 - Constitutional Law / Criminal Justice

3 Credit(s)

This course examines Supreme Court decisions and doctrine in areas such as search and seizure, the exclusionary rule, interrogations, right to counsel, cruel and unusual punishment and other issues in criminal justice and the courts.

POLS 430 - Constitutional Law: Civil Liberties

3 Credit(s)

This course examines Supreme Court decisions and doctrine in areas such as speech, assembly, religion, privacy, press, civil rights, and election law.

POLS 436 - American Thought

3 Credit(s)

The interaction of religious ideas, practices, and aspirations in United States History, 1607 to Present. (Same as PHIL 436)

POLS 460 - Pre-Law Studies Seminar

3 Credit(s)

Taught in an intensive Socratic format, this course is designed to prepare students specifically to read, write, and think like a lawyer. In addition to formal classroom exercises, students shall visit courts and interact with practicing attorneys.

POLS 466 - Ancient Political Theory

3 Credit(s)

This course is of interest to history/government students who want a better understanding of ancient philosophy and its relationship to political thought.

POLS 467 - Modern Political Theory

3 Credit(s)

This course is of interest to history/government students who want a better understanding of modern philosophy and its relationship to political thought.

POLS 468 - U.S.-Latin American Relations

3 Credit(s)

This course will examine U.S.-Latin American Relations from the Monroe doctrine to the Present. It will explore recent developments in U.S.-Latin American relations, particularly the growing interdependence and the impact of the end of the cold war.

POLS 479 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

POLS 480 - International Law

3 Credit(s)

This course explores the key terms and concepts of International Law, from its historical roots to present day institutions, legal cases, and controversies. Many of the key terms and concepts of International Law are the same or similar to those of the U.S. legal system, thereby helping to prepare students who wish to pursue a domestic law degree.

Prerequisite(s):

POLS 380

Co-requisite(s): POLS 380

POLS 492 - Workshop

0.5 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

POLS 499 - Individual Studies

1 to 15 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

POLS 579 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

POLS 592 - Workshop

0.5 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

POLS 599 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permissions and approval of the department chair.

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

PSYC 179 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

PSYC 192 - Workshops

0.5 to 3 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

PSYC 199 - Independent Study

1 to 3 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

PSYC 204 - Child Development

3 Credit(s)

The goal of this course is to examine the interaction of heredity and environment on human development from conception through pre-adolescence. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Some topics include the birth process, early cognitive and language development, gender socialization, the impact of parenting styles, and moral reasoning.

Prerequisite(s):

PSYC 101 Minimum Grade: C or T

PSYC 205 - Adolescent and Adult Development

3 Credit(s)

This course continues the study of life-span development from adolescence through old age and death. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Topics include identity formation, sexual orientation, marriage, models of aging, changes in cognition, social developments, and coping with old age.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 211 - Introduction to Statistics Lecture/Lab

4 Credit(s)

In this course, students will develop a working appreciation of statistical concepts and applications as employed in the behavioral sciences. The course presents descriptive and inferential statistics and their applications. The laboratory component of this course gives students an opportunity to develop skills in using statistical software.

Prerequisite(s):

PSYC 101 Minimum Grade: C- or T

AND

MATH 97 Minimum Grade: S-A or S-B or S-C or T

OR

MATH 99 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 121 Minimum Grade: C- or T

OR

MATH 140 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

PSYC 230 - Psychology of Mental Health

3 Credit(s)

The purpose of this course is to provide students with the historical and social background necessary to understand mental health issues. Students will examine the psychodynamic, behavioral, and cognitive approaches related to the development and treatment of mental disorders and their classifications. Topics will include schizophrenia, depression, bipolar, and personality disorders.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 233 - Lifespan Dev for Nurses

3 Credit(s)

This is a foundational course for nursing students in human growth and development. The goal of this course is to examine the interaction of heredity and environment on biological, cognitive, and social development from conception to death.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 245 - Brain and Behavior

3 Credit(s)

This course provides students with a basic overview of the biological processes underlying human behavior. This course begins by presenting fundamental nervous system structure and processes and concludes by examining the role of biology in complex behaviors. Clinical case studies are used to illustrate psychological and neurological disorders. Sample topics include evolution and genetics, neural communication, major brain structures and their functions, human brain damage, sleep and dreaming, drug addiction, memory and amnesia, and stress and illness.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 265 - Personalities in Perspective

3 Credit(s)

This course provides an introduction to the psychodynamic, trait, behavioral, biological, cognitive and humanistic approaches to personality. Specific theories and current research within each approach are reviewed. The course covers such theorists as Freud, Jung, Erikson, Skinner, Bandura, Cattell, Allport, and May.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 279 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

PSYC 292 - Workshops

0.5 to 3 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

PSYC 299 - Independent Study

1 to 3 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

PSYC 310 - Child and Adolescent Psychopathology

3 Credit(s)

This course provides an examination of the classification, scientific theories, and research regarding abnormal behavior of children and adolescents. Distinctions between adult and childhood disorders will be explored from a developmental perspective. The study of abnormal behavior of children and adolescence (or developmental psychopathology) focuses on nature and development of mental disorders, such as depression, attention-deficit hyperactivity disorder, separation anxiety disorder, the autistic spectrum of disorders, to name just a few. Information regarding the etiology (causes) adult and childhood disorders will be explored.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

PSYC 315 - Multicultural Issues

3 Credit(s)

In this course, students will explore various components of a multicultural society and the impact of social and cultural forces on identity development and formation. The processes of acculturation and assimilation will be discussed. Students will also gain insight into their own cultural experiences in a pluralistic society.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

PSYC 316 - Drugs, Society, and Human Behavior

3 Credit(s)

This course addresses the social, biological, and psychological factors of the major drugs associated with therapeutic and recreational use and abuse. Topics include drug use as a social problem, theories and treatment of addiction, how drugs work, and the detrimental health effects of drug use.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

PSYC 330 - Professional Seminar

1 Credit(s)

This course provides psychology majors with an overview of careers and opportunities in the field of psychology. Educational requirements, career opportunities, and professional and ethical issues are discussed.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

OR

PSYC 205 Minimum Grade: C- OR T

PSYC 345 - Psychological Testing and Assessment

3 Credit(s)

This course provides students with an introduction to the methods and issues involved in testing and assessment. Various assessment domains are presented including personality, cognitive ability, and interests/values. Topics covered in this course include the historical foundation of assessment, reliability, validity, and test construction and ethical considerations.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

OR

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

PSYC 350 - Industrial / Organizational Psychology

3 Credit(s)

This course focuses on the application of psychological principles to the workplace. The domains of personnel psychology, organizational psychology, and human factors are presented. Research and real-world applications are discussed in relation to employee selection, training, and promotion; organizational climate and leadership; and human-computer interface.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

PSYC 355 - Research Methods in Psychology

4 Credit(s)

This course focuses on the procedures and potential problems associated with research in the behavioral sciences. Students learn how to develop research questions, choose an appropriate research design, collect and analyze data using statistical software, interpret results, and write a report using APA style. The laboratory component provides supervised hands-on experience in project development.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

LS 225 Minimum Grade: C- OR T

PSYC 360 - Psychology of Gender

3 Credit(s)

This course will examine gender development from a variety of theoretical approaches, including evolutionary, cognitive, social learning, and cross-cultural. Topics will include how gender influences thinking, communication, interpersonal relationships, education, work, and family.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

PSYC 365 - Psychology of Sport

3 Credit(s)

The purpose of this course is to provide students with an understanding of sport psychology from different theoretical perspectives. This course will include elements of experimental psychology such as motivational issues, cognitive components, personality, and learning which are also apparent in sport psychology. In this broadly oriented course, practical implications that might be useful to today's athletes participating at different levels of competition will be examined.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

PSYC 375 - Human Sexuality

3 Credit(s)

In this multidisciplinary course, students will be introduced to the physiological, medical, sociological, psychological, legal, ethical, moral, and educational facets of human sexuality. Topics in this course include male and female sexual anatomy and sexual response, contraception and disease control, sexually transmitted diseases, and sexual orientation.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 379 - Special Topics

0.5 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

PSYC 380 - Health Psychology

3 Credit(s)

Health Psychology examines the psychosocial factors relevant to health. The course emphasis will be on the contribution of psychological theory to the encouragement of health and wellness and prevention of physical illness. Topics include stress management, health and behavior, chronic and life threatening illness, treatment, and evaluation of health-related research. PSYC 211 recommended.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 205 Minimum Grade: C- OR T

PSYC 384 - Forensic Psychology**3 Credit(s)**

This course focuses upon the application and practice of psychology in both the civil and criminal justice systems with the following topics examined in depth: police and investigative psychology, family forensic psychology, psychology of crime and delinquency, victimology and victim services, legal psychology, expert witness testimony, consulting psychology, correctional psychology, and the ethical guidelines of the professional forensic psychologist.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

OR

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

OR

SOC 455 Minimum Grade: C- OR T

PSYC 386 - Theory and Practice**3 Credit(s)**

This course presents the historical underpinnings of the major theories and principles of learning, and how they are used in applied settings. Classic learning theories are contrasted with contemporary approaches. Students will learn cognitive behavioral assessment and intervention strategies. Topics include traditional behavior modification, as well as contemporary social learning theory and cognitive-behavioral change strategies.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 387 - Psychology of Aging**3 Credit(s)**

This course will take the psychological, biological, and sociocultural approaches to adult development and aging.

Topics will include successful aging, identity development, relationships, memory and cognition, physical aging, retirement, illness, and dying.

Prerequisite(s):

PSYC 101

PSYC 392 - Workshops

0.5 to 3 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

PSYC 399 - Independent Study

1 to 3 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

PSYC 410 - Social Psychology

3 Credit(s)

This course will examine how social processes impact thoughts, feelings, and behavior through the survey of theory and research. Topics will include attraction, aggression, helping, obedience, attitudes, and prejudice.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 414 - Cognitive Psychology

3 Credit(s)

This course presents the scientific study of the basic phenomena, concepts, and processes and neurology involved in

perception, attention, memory, and higher cognitive functions. Cognitive theory and research methods are used in interpreting cognitive phenomena.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 416 - Biological Psychology

3 Credit(s)

This course provides a more thorough examination of the biological basis of human behavior. The biological mechanisms of behavior are emphasized as well as the evolution, genetics, and adaptiveness of behavioral processes. The impact on society of recent developments in neuroscience is also examined.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 455 - Evolutionary Psychology

3 Credit(s)

This course provides students with a detailed and thorough examination of the impact of evolution on human behavior and mental processes. An emphasis using animal behavior and evolutionary processes as a model for understanding human behavior will be utilized. Students will also be exposed to a variety of topics including, the importance of science, the evidence for evolution, selective breeding, genetic and ecological contributions to behavior, the biological

constraints on learning, the development of higher mental processes, complex social behavior, and sex differences in mating behavior and cognition.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 458 - Sensation and Perception

3 Credit(s)

This course examines the physiological and behavioral components of basic sensory processes and the role they play in perception. These sensory systems include vision, audition, the somatic senses (i.e., touch, temperature, and pain) and the chemical senses (i.e., taste and smell). The development and clinical aspects of these sensory systems are also studied. Sample topics include receptors and neural processing, color perception, depth and size perception, perception of movement, speech perception, and the perception of pitch.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 468 - History and Systems of Psychology

3 Credit(s)

The goals of this course are to examine the origins of modern psychology and to explore how many of psychology's modern concerns are manifestations of continuing issues that have been part of Western psychology for hundreds of years. Course topics include the development of modern science and experimentalism, Darwinian influences, functionalism, behaviorism, cognitivism, the psychoanalytic tradition, humanism, and psychobiology.

Prerequisite(s):

PSYC 101 Minimum Grade: C- or T
AND

PSYC 204 Minimum Grade: C- or T

AND

PSYC 205 Minimum Grade: C- or T

AND

PSYC 211 Minimum Grade: C- or T

PSYC 479 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

PSYC 492 - Workshops

0.5 to 3 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

PSYC 493 - Honors Thesis in Psychology

3 Credit(s)

Exceptional students will conduct the completion of an Honors Thesis under the guidance of a faculty member of the Psychology Department. Students will complete a written thesis proposal, research, written final draft of thesis, and an oral defense. By faculty permission and approval of department chair only.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 494 - Honors Thesis in Psychology II

3 Credit(s)

Exceptional students will conduct the completion of an Honors Thesis under the guidance of a faculty member of the Psychology Department. Students will complete a written thesis proposal, research, written final draft of thesis, and an oral defense. By faculty permission and approval of department chair only.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

AND

PSYC 493 Minimum Grade: C- OR T

PSYC 495 - Independent Research

3 Credit(s)

Exceptional students will conduct independent research or a project under the guidance of a faculty member.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 496 - Capstone: Internship in Psychology

1 to 15 Credit(s)

Senior psychology majors will gain applied experience in psychology by volunteering for a service organization.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 330 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 497 - Capstone Research Thesis I

2 Credit(s)

Students enrolling in the course will develop a research thesis under the guidance of a faculty member of the Psychology Department. Students will complete a written thesis proposal, and prepare and submit an application to conduct research to the Institutional Review Board (IRB). The course involves one hour per week of class contact where aspects of research methods will be reviewed, including developing the research question, hypothesis, choosing appropriate methods, and IRB submission.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 498 - Capstone Research Thesis II

3 Credit(s)

Students enrolling in the course will conduct a research thesis under the guidance of a faculty member of the Psychology Department. Students will conduct primary empirical research, write a final thesis in APA format, and present an oral defense to the psychology faculty.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

AND

PSYC 497 Minimum Grade: C-

PSYC 499 - Independent Study

1 to 4 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

PSYC 592 - Workshops

0.5 to 3 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

SCED 510 - Biological/Physical Research

3 Credit(s)

An exploration of the effects of space conditions on the human body, including immunology, neurology, cardiology, and the musculo-skeletal system. The course also presents the role of the International Space Station in advancing knowledge about humans in space as well as space biology and agriculture.

SCED 515 - Meteorology and Space Weather

3 Credit(s)

This course incorporate principles of meteorology as they apply to Earth's weather patterns and systems with the emerging field of space weather and how the sun, radiation, magnetic fields and other factors affect the earth's atmosphere and weather.

SCED 520 - Classroom Astronomy Principles

3 Credit(s)

This course takes principles of astronomy, such as orbital mechanics, and applies them across K-12 subjects (language arts, math, science, social studies) to help students develop accurate conceptual understandings about how the solar system works.

SCED 525 - Earth Systems Science

3 Credit(s)

This course explores the various forces that continue to shape our planet. Geologic history is used to understand such processes as erosion, deposition, global warming, and more.

SCED 529 - Astronomy and Space Science

3 Credit(s)

Harness your students' enthusiasm for space and astronomy by using astronomical images to enrich your physical, earth, and life science courses. In this course, we will explore the history of astronomy and the many ways in which real data from NASA's space science and astronomy missions can be used to enrich content in your classroom. Through the use of cutting-edge technology tools, you will learn about the universe, how to bring it down to Earth and into your classroom.

Prerequisite(s):

Graduate level SCED 548 Minimum Grade of B

OR

Graduate level SCED 549 Minimum Grade of B

SCED 531 - Life and Marine Science: Tracking Animals

3 Credit(s)

Life with Marine Science: Tracking Live Marine Animals provides teachers with the content and resources to follow marine animals like sea turtles, seals, and polar bears with students where they apply life science and earth science topics in the context of the ocean. Teachers learn how students can become bathymetry, chlorophyll, and sea surface experts through scaffolded standards-based lessons. Interpretation of animal migration patterns and ocean parameter data put science, math, engineering, and technology content in an engaging and meaningful context.

Prerequisite(s):

SCED 548 Minimum Grade: B

SCED 532 - Coding, Robotics and 1:1 Devices

3 Credit(s)

The recent "Computer Science for All Initiative" unveiled during the 2016 State of the Union Address is the latest manifestation of society's realization that computer programming belongs among the traditional "core" subjects taught to students throughout the United States. This course addresses strategies that you, educators of our next generation of problem solvers, can bring directly to your classroom to fully integrate computational thinking and project based learning using programming, robotics and one to one devices.

SCED 544 - Action Research in STEM Classroom

3 Credit(s)

In this Action Research course educators will continue engaging in the action research process which involves collecting and analyzing data, reporting the results, and taking informed action. Educators will continue to reflect on and define their purpose for action research which may include building the reflective practitioner, making progress on school-wide priorities, and building professional cultures. While planning and conducting action research, educators will respect the ethical obligations that educational researchers have and adhere to the codes and procedures involved.

Prerequisite(s):

SCED 548 Minimum Grade: B

AND

ED 643 Minimum Grade: B

SCED 548 - Methods of STEM Education

3 Credit(s)

Students can excel with STEM content when teachers implement innovative student-centered classroom practices. In this course, educators learn to apply research-based practices valued in NGSS-based classrooms. Educators gain resources for selecting and integrating authentic data, planning student-centered lessons, considering cultural relevance in teaching, and developing meaningful assessments for STEM activities. In a collaborative environment, participants learn to integrate engineering design into their STEM classroom and appropriately represent the Nature of STEM, recognizing that each discipline is essential to authentic learning opportunities. Teacher educators share many resources and model STEM teaching to engage students in "doing science" and applying critical thinking skills to real-world

scenarios. This foundations course is the basis for Endeavor's electives where concepts and practices are explored further.

Prerequisite(s):

Admission to Graduate School

SCED 550 - Arts in STEM/Advanced Meaningful Integration

3 Credit(s)

At the core of the STEM Education movement is critical thinking, creativity, problem solving and authentic learning environments that engage diverse students in meaningful ways with content. The many mediums for art and artistic expression are a valuable component of communication and expression. Scientists and researchers at NASA and across the globe use myriad forms of art in their work. This course invites students to take a close look at the incorporation of art in the STEM classroom and provides resources, exemplars and access to collaborative support for arts integration.

Prerequisite(s):

SCED 548 Minimum Grade: B

SCED 551 - Chemistry in the STEM Classroom

3 Credit(s)

This course spans a 15-week semester with weekly assignments detailed in the syllabus and the Online Learning Space (OLS). During the 5 weeks when there is a live meeting, participants are required to attend each 1 hour session and complete 2 hours of asynchronous coursework, for a total of 3 hours each week. During the 10 weeks when there is no live, online meeting, participants complete 3 hours of asynchronous coursework as described in the syllabus and OLS. During the semester, participants are required to complete 45 hours of blended live and asynchronous course work: 40 hours online, in discussion forums with classmates and instructors, reviewing content, materials, and pedagogy required to both meet course objectives and successfully implement units with students and 5 hours in live, online webinar sessions.

Prerequisite(s):

SCED 548 Minimum Grade: B

SCED 554 - Advanced Coding, Robotics, and 1:1 Devices

3 Credit(s)

The Advanced Coding, Robotics, and 1:1 Devices (Accuplacer-Reading) extends students' knowledge of programming and robotics that began in part one of this course. The Accuplacer-Reading class begins with a foundational understanding of the types of programming and integrated development environments to implement the various platforms with students in the hybrid classroom. Accuplacer-Reading students will gain fundamental understanding of data and methods of visualization which is crucial to the success at every level of programming and robotics. The programming platforms selected for this course will incorporate data as practiced in workplace settings. The platforms support mobile application development, data entry & manufacturing, augmented and virtual reality, 3D printing, and virtual robotics. The sessions present each topic within three paradigms: the mindset, the beginners sandbox, and the intermediate immersion (referred to as Level 1,2, and 3 respectively in the course artifacts). This layered prepares teachers to guide students, including our youngest scholars, on a journey to establish computational thinking on levels aligned with readiness. Accuplacer-Reading students will collaborate about lesson planning ideas through online Flipgrid, office hours, and a culminating hackathon to showcase projects.

Prerequisite(s):

SCED 532 Minimum Grade: B-

SOC 201 - Social Imagination GT-SS3**3 Credit(s)**

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

SOC 245 - Criminology**3 Credit(s)**

Criminology is an introductory course to the study of crime and criminal behavior with special emphasis on theories of crime and delinquency causation, rates and extent of crime, and social control agents (i.e., the police, courts, and "corrections"). Special topics examined may include gangs, white-collar crimes, property crimes, victimless crimes, and organized crime.

SOC 251 - Social Problems**3 Credit(s)**

This course is designed to provide the student with a survey of selected contemporary social problems. Social problems addressed in the class may include poverty, addiction and substance abuse, mental health, violence with a focus on family violence, crime, teen sexuality and pregnancy, and health care issues. The causes, severity, and consequences of the selected social problems are explored. In addition, strategies for alleviating social problems are presented.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

LS 225 Minimum Grade: C- OR T

SOC 255 - Research And Writing in Sociology**3 Credit(s)**

This introductory course in social research and writing in sociology offers an overview of how sociologists study the social world, research social phenomena, and write about their findings. This class provides an overview of knowledge production and methods used by sociologists to develop a research agenda, test hypotheses, and refine theories and sociological inquiry. Students will gain the tools needed to conduct social research while also developing the skills necessary to read and critically evaluate sociological research. Students will learn fundamental concepts and mixed methods approach to sociological research. Students will summarize research and identify (1) the research question, (2) assumptions and propositions of the theory, (3) specific hypothesis, (4) methods used, and (5) the findings and results.

Prerequisite(s):

SOC 201 minimum grade C-

SOC 279 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

SOC 305 - Rural Sociology

3 Credit(s)

The purpose of this course is to introduce some of the social, political, environmental, and economic problems and prospects associated with rural America. Special attention will also be given rural community services and social institutions, with some focus on the San Luis Valley and other parts of rural Colorado.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 311 - Social Statistics

4 Credit(s)

This course presents a general overview of the statistical methods most commonly used in sociology and the social sciences. As a laboratory component, students will become proficient in SPSS, a computer program designed to aid statistical analysis. These skills will enable the student to read popular applications of statistics in the media with a critical eye; assess the use of statistics in the professional sociological literature; and use statistical tools to answer the sociological questions of interest.

Prerequisite(s):

SOC 255 Minimum Grade: C-

AND

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

SOC 315 - Sociology of Education

3 Credit(s)

This course explores the relationship between education and society with special emphasis on the effects of this relationship on the lives of students in the American education system.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 318 - Race, Class, and Gender

3 Credit(s)

The focus of this course is on the interrelated ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result and the dynamics of change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 320 - Marriages and Families

3 Credit(s)

This course will provide an overview of the family from a sociological perspective. The family is considered to be one of the most private and pervasive institutions in society. All of us have had contact with at least one family, and many of us will be involved in several different families during our lifetime. Our experiences point to the numerous transformations in family life. To obtain a better understanding of these changes, recent sociological research and data on the family will be utilized in this course. In addition to examining the history of the family, the course will study the contemporary family and its diversity. The course will examine traditional marriage/family arrangements and alternative processes of mate selection and family formation. Finally, the course will examine parenting, the relationship between work and family, divorce and reconstituted families.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 340 - Readings in Sociology

2 Credit(s)

This course is designed to help students synthesize their knowledge of sociology from a broad range of content areas by reading major works in the field. Students will be exposed to major theoretical pieces, pivotal research in the discipline, and central pieces of writing that have shaped Sociology. The course will also focus on Sociology in mainstream society by reading popular pieces in the press that are written by, about and for Sociologists. The major objectives are to increase students' ability to read, understand, and critically analyze writings of Sociology. Goals also include getting students to bring together all core contents of Sociology in a single course for synthesis and critical thinking in a seminar format.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 345 - Women, Sport, and Society

3 Credit(s)

This course will explore how women have been involved in sports and athletics, how they have fought to claim recognition and legitimacy among historically male dominated settings, and how they continue to shape sports and the role of women in society. We will explore a wide variety of topics in society related to women in sports including historical influences, equitable access, characteristics of female sport participation, sport opportunities, and sport leadership. Topics will include Title IX, female bodies and physiology, sport diversity, gender identity, women's sport and aging, disabilities, sport and sexual violence, media and women's portrayal in sports, competitive sports in high school, college, and professional leagues, and marketing women's sports.

SOC 346 - Criminal Justice

3 Credit(s)

The focus of this course is on the organizational structures and social processes of the American criminal justice system. It will examine criminal law, policing, courts, and corrections.

SOC 347 - Juvenile Delinquency

3 Credit(s)

This course describes the nature of delinquency, including the trends, characteristics, and causes of juvenile delinquency. In addition, the course will examine theories of delinquency, social influences on delinquency, historical and contemporary overviews of the juvenile justice system, and the juvenile justice process from police involvement to the court system and corrections. Finally, methods of treatment and prevention will be identified.

SOC 348 - Women and Crime

3 Credit(s)

This course will address the role women play as criminals, victims, and professionals in the criminal justice system. This course will examine the important intersection between gender and crime, exploring the nature and extent of women's involvement in the criminal justice system. The course will investigate and discuss the relationship between victimization and offending, and study the unique way women are involved in and impacted by the criminal justice system, with case study examples from real crimes.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 352 - Social Work Practices

3 Credit(s)

This course is an introduction to the nuts-and-bolts of social work practice. The course is designed with several general objectives in mind: (1) to familiarize the student with specific techniques of social work such as the person-in-environment approach and case management, (2) to provide a fundamental understanding of roles of community and family in social work practice, (3) to explore the needs of selected special populations in the community, (4) to identify the biological, psychological, and social influences on development and behavior across the life cycle, and (5) to introduce the student to fundamental social work practice skills.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

AND

SOC 251 Minimum Grade: C- OR T

SOC 365 - Race and Ethnicity in the U.S.

3 Credit(s)

This course provides a sociological approach to race and ethnic relations in the U.S. today. This course introduces the basic sociological theories and perspectives related to the study of race and ethnicity, the histories, and present status of different racial and ethnic groups in the United States and raises questions about continuing racial discrimination and inequality in our society. Issues of defining race, racial identity, interpersonal and institutional discrimination, segregation, and affirmative action (among others) are explored.

SOC 370 - Poverty and Wealth

3 Credit(s)

This course examines the historical and socio-cultural factors which influence the creation and maintenance of poverty and wealth. Emphasis will be on structural factors and theoretical explanations of poverty and inequality. This course will also focus on the implications for policy and social programs aimed at poverty and other social class issues. In addition, there will be exploration of systems of power, privilege, and domination that are central to the American social structure. Finally, the issues of empowerment, resistance, and solutions to social inequality will be assessed.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

AND

SOC 251 Minimum Grade: C- OR T

SOC 379 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

SOC 380 - Family Violence

3 Credit(s)

This course examines violence in the family from sociological and criminological perspectives. It includes the types and causes of violence in families and domestic units, especially those directed against women and children (woman battering, courtship and dating conflict, and child abuse). Throughout the various types of family violence, intervention and prevention measures are examined as well as the social and legal implications of these measures.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 381 - Drug Abuse and Society

3 Credit(s)

This course focuses on the context and correlation of drug use, relationship with crime and delinquency, and societal reaction to drug abuse. Also discussed is the study of sociological and social psychological explanations of drug-using behaviors and of legal and medical control of drugs. Finally, topics include changes in the legal status of drugs, cross-cultural and historical variations in the control of drugs, and social epidemiology of drug use in contemporary society will be examined.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 391 - Sociology of Religion

3 Credit(s)

This course will introduce students to an examination of religion through sociological inquiry and imagination. Students will learn how sociologists study religion and will apply classical and contemporary sociological theories to understand both personal religious experiences/identities and organized religion as a social phenomenon. The course explores socialization into religions, the processes of conversion and apostasy, and various forms of organizational structures for religious groups. Other issues to be explored include how religious identity and structure connect to gender, race, sexuality, and social class; competition and conflict between different religious groups; as well as the tension between religion as a social institution and secularization trends in the contemporary US.

Prerequisite(s):

Junior standing

SOC 395 - Pre-Professional Seminar

2 Credit(s)

This course provides an introduction to the profession of sociology and the various career options available to graduates. Occupational and graduate school options are explored in detail through library research, presentations, observational and volunteer experiences, and informational interviews. Skills for job interviewing, resume development, and professional correspondence are explored.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 399 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 401 - Self & Society

3 Credit(s)

This course will look at social psychology from a sociological perspective. More specifically, students will utilize the symbolic interactionist theory to examine how identities, selves, social life, and social reality are products of ongoing

social interactions.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 419 - Gender and Society

3 Credit(s)

The aim of the course is for students to become familiar with the continuing differences and inequalities between women and men in the contemporary United States, and to begin to explain why and how they occur through a sociological lens. Understanding gender as it relates to other social identities (for example, race, class and sexuality) is an important organizing framework of the course. Students will learn about the gendered arrangements in a variety of social contexts such as education, the media, work and the economy, and the family.

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 430 - Social Movements

3 Credit(s)

This course is designed to provide an analysis of social movements on a broad array of topics including issues of how they form, why they form, when are they successful, and whether they change society. We will be looking at broader historical movements from the civil rights movement, the environmental movement and the feminist movement as well as more recent movements, on race, class and gender issues. We will look at how they relate to diversity and equity, social justice, globalization, and cultural change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 440 - Diversity in Media

3 Credit(s)

Students will analyze how US media represents traditionally marginalized people in the United States. The course will be primarily research, case study, and discussion based, with students and instructor working together to generate ideas and critique dominant ideologies.

SOC 444 - Deviance and Control

3 Credit(s)

The sociology of deviance and control examines the nature of rule-making and rule-breaking in modern societies. The course includes theoretical considerations of the causes and consequences of deviance.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 445 - Sociological Theory

3 Credit(s)

The major theories of society are covered in their classical and contemporary forms.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 447 - Correctional Systems

3 Credit(s)

This course will focus on corrections as one of the components of the American criminal justice system and its operation within a democratic form of government. The philosophical and historical underpinnings of punishment and correction will be analyzed and compared (e.g., punishment vs. rehabilitation).

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

AND

SOC 346 Minimum Grade: C- OR T

SOC 454 - Sociological Research Methods

3 Credit(s)

This course is designed to expose students to a variety of research methods. Students will be instructed in the fundamentals of research design and implementation, including ethical considerations. Students will read and study the research projects of selected sociologists. This course is for the incarcerated population, only.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

AND

SOC 300 Minimum Grade: C- OR T

SOC 455 - Qualitative Research Methods

4 Credit(s)

This course is designed to expose students to a variety of qualitative research methods. Students will be instructed in the fundamentals of research design and implementation, including ethical considerations. Students will read and study the research projects of selected sociologists. Students will engage in multiple hands-on activities to practice research methods. Each student will design a qualitative research project. In the lab component of the course, students will analyze and interpret qualitative data. Finally, students will learn to conduct content analysis, and use grounding theory

to code and analyze their data and write a final project report. This course includes a lab day each week and is a 4-credit course.

Prerequisite(s):

SOC 201 Minimum Grade: C-

AND

SOC 255 Minimum Grade: C-

SOC 470 - Social and Public Programs

3 Credit(s)

This course analyzes the historical development, current content, and adequacy of social welfare policies in the United States. Specific policy areas to be discussed include income maintenance (including social insurance and public assistance), mental health, health care, and aging.

Prerequisite(s):

SOC 352 Minimum Grade: C- OR T

SOC 479 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

SOC 492 - Workshops

0.5 to 5 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 493 - Internship in Sociology

3 Credit(s)

Students in Sociology are placed at an internship site in the community and conduct a mentored capstone case study. Ninety hours of service with the agency are required. The student is supervised by both a Sociology faculty member and a representative from the human service agency. Instructor approval required for registration purposes.

Prerequisite(s):

Special permission and senior standing.

SOC 499 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission

and approval of the department chair.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 518 - Race, Class, and Gender

3 Credit(s)

The focus of this course is on the interrelated, ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result, and the dynamics of change.

SOC 579 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

SOC 592 - Workshops

0.5 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

SOC 599 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Chair.

SPAN 103 - Elementary Spanish I

4 Credit(s)

A study of the principles of pronunciation, basic level conversation, essentials of grammar, written composition, and reading of materials of graded difficulty.

SPAN 104 - Elementary Spanish II

4 Credit(s)

A continuation of SPAN 103. Covers the principles of pronunciation, conversation, essentials of grammar, written composition, and reading of materials of graded difficulty.

Prerequisite(s):

SPAN 103 Minimum Grade: C- OR T

SPAN 179 - Special Topics

1 to 8 Credit(s)

Offered periodically to meet student special interests in the field.

SPAN 192 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

SPAN 199 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

SPAN 201 - Pronunciation and Conversation

2 Credit(s)

Instruction and practice in the basic pronunciation of the Spanish sound system. Special attention and practice will be devoted to the most difficult combinations of phonemes and morphemes of Spanish for the non-native speaker. Some practice is also devoted to a basic level of Spanish conversation.

Prerequisite(s):

SPAN 103 Minimum Grade: C- OR T

SPAN 203 - Intermediate Spanish I

3 Credit(s)

Review of grammar, written composition, and translation. Special attention to vocabulary building. Emphasis on understanding and speaking Spanish.

Prerequisite(s):

SPAN 104 Minimum Grade: C- OR T

SPAN 204 - Reading and Conversation

3 Credit(s)

Readings on cultural topics, discussions, speaking activities, review of some grammatical features, attention to vocabulary building. Emphasis on understanding and speaking Spanish.

Prerequisite(s):

SPAN 203 Minimum Grade: C- OR T

SPAN 279 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

SPAN 292 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

SPAN 299 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

SPAN 310 - Southwest Spanish

3 Credit(s)

A study of characteristics of oral Southwest Spanish. The course will explore the historical origins of Spanish in the Southwest including the conquest and colonization by the Spanish, the signing of the Treaty of Guadalupe Hildago, and the settlement of the San Luis Valley. Issues related to bilingualism, Spanish/English contact, and attitudes toward and effects of the maintenance and loss of Spanish will be examined.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 313 - Conversation and Composition

3 Credit(s)

This course provides instruction in the development of advanced level conversation and writing skills (spelling, paragraphs, summaries, letters, reports, etc.) in Spanish. The student will acquire the useful everyday skills needed to communicate in Spanish correctly.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 315 - Spanish for Business

3 Credit(s)

Instruction in the specific vocabulary, grammatical structures, and cultural insights needed to effectively deal with the common everyday business interactions between the Spanish-speaking client and English-speaking business community.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 316 - Spanish for Health Professions

3 Credit(s)

Instruction in the special vocabulary, grammatical structures and cultural understanding needed to deal effectively with the Spanish speaking patient/health professional interactions. The student will learn to interact in Spanish with a variety of simulated common everyday patient/health personnel situations.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 317 - Spanish for Translation

3 Credit(s)

Instruction in the specific vocabulary, grammatical structures, and cultural insights needed to effectively deal with the non-technical general translations from English/Spanish or Spanish/English. Although the student will learn that there are various approaches used in the translation of texts, this course emphasizes the translation of the underlying message and its meaning based on the cultural context.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 325 - Spanish Civilization and Culture

3 Credit(s)

Instruction on selected themes taken from the historical legacy and cultural institutions of the Spanish people. The cultural topics include reading on: the Roman legacy, the church, the Moors, the great writers of the Golden Age, the great Spanish monarchs, Franco, etc. The selected themes will determine the supplemental readings that are selected in depth discussion and study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 326 - Latin American Civilization and Culture

3 Credit(s)

Instruction on selected themes taken from the historical and literary legacy of the Spanish people. The literary topics include reading about Spanish heroism, medieval Spanish beliefs, Spanish imperialism, Spanish-Indian relations, Great Spanish explorers, etc. The selected themes will determine the reading that are selected for in depth discussion and study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 340 - Topics in Spanish Literature

3 Credit(s)

Instruction on selected themes taken from the historical and literary legacy of the Spanish people. The literary topics include reading about Spanish heroism, medieval Spanish beliefs, Spanish imperialism, Spanish-Indian relations, Great Spanish explorers, etc. The selected themes will determine the reading that are selected for in depth discussion and study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 341 - Topics in Latin American Literature

3 Credit(s)

Instruction on selected themes taken from the historical and literacy of the Latin American people. The literary topics include reading on: the Spanish conquest, the Indian, independence, social protest, women, religious faith, etc. The selected themes will determine the readings that are selected for in depth discussion and study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 350 - Advanced Grammar and Composition

3 Credit(s)

Intensive course in grammar and in the writing composition of the language. Advanced grammar principles, translation from English to Spanish and other language refinements.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

SPAN 392 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

SPAN 395 - Spanish Phonetics--Language History

3 Credit(s)

Introduction to the study of the Spanish sound system including a brief background of the history and development of the Spanish language as well as some discussion of dialectal differences across the globe. Designed for those planning to teach Spanish including pedagogical concepts that can be applied in the classroom to aid students in the improvement of their Spanish pronunciation. Examine English/Spanish contrasts and includes exercises in written transcription, oral productions, and an analysis of spoken Spanish.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 396 - Methods Teaching Foreign Language

3 Credit(s)

A study of effective teaching methods and the development of a contextualized approach to language instruction that is based on meaningful language use, real-world communication, and interaction among learners. Emphasis will be placed on the National Standards for Foreign Language Learning and the American Council on the Teaching of Foreign Languages (ACTFL) proficiency guidelines.

Prerequisite(s):

Admission to the Educator Preparation Program

SPAN 399 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

SPAN 400 - Masterpieces of Spanish Literature

3 Credit(s)

This is a senior level course that provides an in-depth study of selected complete works of Spanish literary masterpieces. Five complete literary masterpiece works by Spanish writers will be selected for an in-depth study. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 401 - Masterpieces of Latin American Literature

3 Credit(s)

This is a senior level course that provides an in-depth study of selected complete works of Latin American literary masterpieces. Five complete literary masterpiece works by Latin American writers will be selected for an in-depth study. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 411 - Contemporary Spanish Literature

3 Credit(s)

This is a senior-level course that provides an in-depth study of selected complete works of contemporary Spanish literary works. Five complete literary works by Spanish writers will be selected for an in-depth study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 412 - Contemporary Latin American Literature

3 Credit(s)

This is a senior-level course that provides an in-depth study of selected complete works of contemporary Latin American literary works. Five complete literary works by contemporary Latin American writers will be selected for an in-depth study. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 413 - La Literatura Indigenista

3 Credit(s)

Study of the major themes and characteristics surrounding the social condition and plight of the Indian as portrayed in the major Latin American indigenous novels. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 414 - Spanish American Thought

3 Credit(s)

Study of the major themes, ideas, and perspectives of major Latin American writers. The selected readings include interpretive essays, literary narratives, and philosophical works by such writers as: Samiento, Andres Bello, Juan Montalvo, Jose Marti, Octavio Paz, Jose Vasconcelos, Leopold Zea, and others. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 415 - Cervantes/EI Quijote

3 Credit(s)

A study of the life and important works of Cervantes with special emphasis on the Quijote. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 416 - La Novela/Revolucion Mexicana

3 Credit(s)

Analysis of the most important novelists of the Mexican Revolution and their impact upon the present day political,

social, and economic structure of Mexico. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 419 - Golden Age Drama

3 Credit(s)

A study of the themes, forms and development of Spanish National Theatre of the 16th and 17th Centuries. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 423 - Modern Hispanic Short Story

3 Credit(s)

This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 425 - Hispanic Poetry

3 Credit(s)

A course designed to analyze the techniques, styles, etc. of selected Hispanic poetic collections. Instructor permission may be sought in lieu of prerequisites.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 479 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

SPAN 492 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

SPAN 499 - Individual Studies

1 to 15 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

SPAN 579 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

SPAN 592 - Workshop

0.5 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

SPAN 599 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Chair.

SPCH 100 - Speech Fundamentals

3 Credit(s)

A course designed to develop proficiency in oral communication: interpersonal, group, and public discourse.

SPED 531 - SPED for Culturally Linguistically Diverse (CLD) Students

3 Credit(s)

This course focuses on issues and trends related to the assessment, instruction and planning requirements for culturally linguistically diverse learners with exceptional needs. Emphasis will feature the overrepresentation and underrepresentation of culturally diverse students in special education and gifted education programs. It will also explore language, literacy and cultural variables that influence instruction and assessment practices for students with disabilities who come from culturally and linguistically diverse backgrounds.

SPED 534 - Domains of Learning

3 Credit(s)

This course will survey learning theories relevant to the following domains: Cognitive (e.g. brain-based learning), Cognition & literacy, affective, social, behavior/psycho-motor, cultural and communicative. Learning styles and problem-solving processes will also be addressed in the course. The application of theoretical frameworks for domains to enhance student learning outcomes and literacy skills (phonics, phonemic awareness, vocabulary, fluency, and comprehension) will be required.

SPED 535 - Identification, Teaching SPED

3 Credit(s)

This course is designed to provide students with knowledge of the areas of exceptionalities needed in the special education planning process. The course will include skills necessary in the multidisciplinary process for identifying students strengths/needs in order to develop and implement Individualized Education and Transition Plans in collaboration with other special education and regular education professionals. Alternative teaching methods and approaches to instructional materials to ensure student (including students who are English language Learners and CLD) success and achievement will be the focus of the course. Candidate will explore intensive intervention programs and structure based on progress monitoring data to improve instruction for students with intensive learning needs who are not responding to the standard protocol at Tier 1 and Tier 2 of MTSS

SPED 540 - Assessment in Special Education

3 Credit(s)

This course is an introduction to assessments and measurements in an educational setting. Students will develop skills for the systematic process of gathering, interpreting, and organizing educationally relevant information based on laws, policies and legal provisions. Emphasis is placed on effective assessment principles and procedures developing both theoretical and practical knowledge for assessment-based, instructional decision making about the provision of special services to exceptional students and students from cultural and linguistically diverse backgrounds. A focus will be on collaboration with stakeholders to interpret and apply assessment results for the determination of eligibility for special education services. Valid assessment methods/types will be utilized in order to limit the misidentification of CLD and CLDE students. The use of technology, including assistive technology, with all students, including those students with special learning and communication needs will also be explored. A range of technologies will be examined, from low-tech devices such as simple switches to computers, adaptive devices, and software appropriate for students with disabilities. Basic standard setting, grading, testing ethics, locating and evaluating measures, program evaluation, development of foundational skills for assessing literacy development for students with disabilities served in general education setting and classroom research will also be presented.

SPED 542 - Special Education Law

3 Credit(s)

The principles of IDEA and implications for educational programming and instruction will be presented. Section 504 requirements and implications for special and regular education will be presented. Special attention to the educational needs of culturally and linguistically diverse special needs students will be addressed.

SPED 558 - Student Teaching in SPED

3 Credit(s)

The course addresses student teacher state required field experience hours to be completed in a secondary school setting with a focus on transition planning. The experience provided during student teaching will involve placement in a total inclusion setting. This practice experience helps candidates acquire necessary skills to build a community of learners in a secondary setting. The student teaching experience requires a minimum of 120 hours in a secondary setting (inclusion in content areas where applicable). Through a combination of classroom experiences and lab hours, the students will be able to address the significant support needs of exceptional learners including English language learners and students with disabilities who come from culturally and linguistically diverse backgrounds. The instructional team shall be composed of the secondary special education students, student teacher, cooperating teacher, college supervisor, and the building administrator.

SPED 579 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

SPED 592 - Workshop

0.5 to 5 Credit(s)

Short course offered on an intermittent basis to meet the needs of special constituents.

SPED 599 - Individual Studies

1 to 7 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Chair.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

THTR 205 - Improvisational Acting

3 Credit(s)

This course is an introduction to improvisation as a form of comedy entertainment. Both short and long form will be covered. Completion of this course is a prerequisite for membership in the Adams State University Improvisation Troupe.

THTR 210 - Stage Makeup

3 Credit(s)

Fundamental elements of design and application of theatre makeup. Painted theatrical makeup, latex, crepe hair, putty wax, prosthetics, and simulated physical trauma will be executed in this course.

THTR 213 - Oral Interpretation of Literature

3 Credit(s)

Helps develop effectiveness in personal expression and abilities in the oral interpretation of fiction, nonfiction, and poetry.

THTR 223 - Acting

3 Credit(s)

An introduction to the art of performing using the Stanislavski system of acting. Classes will consist primarily of in-class activities designed to demonstrate acting concepts and principles. This course requires active participation in discussions, exercises, and the presentation of performances.

THTR 230 - Introduction to Devising

3 Credit(s)

This course offers a practical engagement with theatrical devising processes. Devising is a method of making performance work that is an alternative to script-based performance practices. In addition to using readings and class discussion to provide a grounding in understanding devising processes, the course will also be structured as a lab for a hands-on practical experience in devising new work.

Prerequisite(s):

THTR 223 Minimum Grade: C- OR T

THTR 242 - Voice for Performance

3 Credit(s)

Study of the physical nature of voice production and the sound and mechanisms of speech, including articulation, register, and range. Individual analysis and performance.

THTR 250 - Cinema

3 Credit(s)

An introduction to American cinema. This course will cover such topics as the history of cinema, film analysis, cinematography, editing techniques, film genres, screen writing, and the motion picture industry's responses to cultural issues.

THTR 251 - Stagecraft I

3 Credit(s)

An introductory course that explores the basic skills, principles, and techniques of Technical Theatre production: Production Organization & Management, Scenery and Props, Lighting & Electrics, Sound, and Costuming & Makeup. An emphasis on both theory and gaining practical, hands-on experience with Theatre tools, equipment, and common practices.

THTR 265 - Playscript Analysis

3 Credit(s)

This course offers a foundation in script analysis. Utilizing close reading techniques, students will practice reading scripts to garner the critical skills necessary to produce theatrical work. In addition to this focus on production analysis, students will also learn about the historical, cultural and political contexts for each play read to understand the consequences of producing theatrical work in relation to the broader social milieu.

THTR 279 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

THTR 285 - Production Management

3 Credit(s)

This course presents information, materials, experiences, and projects that will lead students to an understanding of the functions of technical direction and stage and theatre management. It will teach students to become practicing, problem solving technical directors, stage managers and house managers.

Prerequisite(s):

THTR 251 Minimum Grade: C-

THTR 288 - Physical Acting

3 Credit(s)

This course focuses on the physical aspects of acting. While previous acting courses introduced techniques dealing with creating a character, script analysis, and scene work, this course explores alternative movement-based approaches to acting. Instructor permission must be obtained to register for this course.

Prerequisite(s):

THTR 223 Minimum Grade: C- OR T

THTR 292 - Workshop

1 to 6 Credit(s)

A short course offered on an intermittent basis to meet the needs of special constituents.

THTR 310 - Advanced Acting Techniques

3 Credit(s)

Advanced study of the techniques of acting. Emphasis will be placed on character and script analysis using the Stanislavski system of acting. Additionally, other significant theories of acting will be introduced. Instructor permission may be obtained to register for this course.

Prerequisite(s):

THTR 223 Minimum Grade: C- OR T

THTR 320 - Censorship and the Arts

3 Credit(s)

This course focuses on the phenomenon of censorship in the United States with a specific emphasis on the First Amendment and case studies of censored artistic expression.

THTR 325 - Styles of Acting

3 Credit(s)

Character analysis and development involved in performing tragedy, serious drama, farce, and high comedy. Instructor permission must be obtained to register for this course.

Prerequisite(s):

THTR 223 Minimum Grade: C- OR T

THTR 329 - Women and Drama

3 Credit(s)

A survey of the history and literature associated with women in theatre. The course will include the history of actual women involved in the evolution of western and eastern theatre traditions as well as playscripts which deal with the subject of women's issues. There will be a strong emphasis on the incorporation of contemporary dramatic theory, especially feminist theory, to analyze dramatic texts. The course will cover Greek through Contemporary Drama.

THTR 333 - Scenic Design

3 Credit(s)

This is an introductory-level, actively intensive, practical workshop, lecture, & discussion based class examining the tools, materials, skills and practices of scenic design, while developing creative thinking and visual communication techniques for the theatre designer. The emphasis of the class is on the creative process, from conceptualization to the execution and presentation of the design idea, with a major focus being the exploration and use of unexpected associations, analogies, and visual metaphors as tools for inspiring and creating effective scenic designs.

Prerequisite(s):

THTR 351 Minimum Grade: C- OR T

THTR 334 - Lighting Design

3 Credit(s)

This is an introductory-level, actively intensive, practical workshop, lecture, & discussion based class examining the tools, materials, skills and practices of lighting design, while developing creative thinking and visual communication techniques for the theatre designer. The emphasis of the class is on the creative process, from conceptualization to the execution and presentation of the design idea, with a major focus being the exploration and practical application of the Controllable Qualities of Light, Functions of Stage Light, and Designing with Light, and producing the Lighting plot and related paperwork.

THTR 335 - Theatre Practicum

1 to 3 Credit(s)

Theatre Practicum is an applied course in which a student, in consultation with, and under the supervision of, a faculty member, undertakes a project related to the Design & Technology emphasis. The number of credits for Practicum is determined by the scope of the students project.

THTR 336 - Theatre Practicum

1 to 3 Credit(s)

Theatre Practicum is an applied course in which a student, in consultation with, and under the supervision of, a faculty member, undertakes a project related to the Collaborative Creation emphasis. The number of credits for Practicum is determined by the scope of the students project.

THTR 337 - Theatre Practicum

1 to 3 Credit(s)

Theatre Practicum is an applied course in which a student, in consultation with, and under the supervision of, a faculty member, undertakes a project related to the Performance emphasis. The number of credits for Practicum is determined by the scope of the students project.

THTR 338 - Theatre Practicum

1 to 3 Credit(s)

Theatre Practicum is an applied course in which a student, in consultation with, and under the supervision of, a faculty member, undertakes a project related to the History & Literature emphasis. The number of credits for Practicum is determined by the scope of the students project.

THTR 340 - Costume Design

3 Credit(s)

Fundamental elements of design and study of critical historical periods of costume from Greek through present day.

THTR 345 - Improv Troupe Practicum

1 to 3 Credit(s)

Participation in college Improvisation Troupe under the supervision of the Theatre faculty. May be repeated for credit. No more than three credits will count towards major requirements. Instructor permission is required for registration into this course.

Prerequisite(s):

THTR 205 Minimum Grade: C-

THTR 347 - Theatre and Social Change

3 Credit(s)

This course is an introduction to the ideas and practice of theatre as a catalyst for social change. It examines the intersection between theatre, society, and political activism.

THTR 351 - Stagecraft II

3 Credit(s)

A hands-on approach to the fundamentals of technical theatre. Students will have the opportunity to learn mechanical drawing, stage carpentry, welding, set construction, stage lighting, scenery painting and the use of a variety of fasteners, hand tools, and power tools.

THTR 352 - Playwriting

3 Credit(s)

This course introduces the basics of playwriting, its form and structure. Utilizing multiple approaches to writing and capitalizing on the student's own creative thinking, the course will culminate in a staged reading of the students' work.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

THTR 368 - Performance Art

3 Credit(s)

A study of Performance Art with an emphasis on its history, theory, and creation of original performance.

THTR 379 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

THTR 385 - Play Direction

3 Credit(s)

A comprehensive study of the numerous, functions of the stage director, from pre-season play selection to post-production evaluation. The focus will be placed upon script analysis, development of design concepts, principles of blocking and movement, pacing, and communicating with actors and the design team.

Prerequisite(s):

THTR 223 Minimum Grade: C- OR T

THTR 392 - Workshop

1 to 6 Credit(s)

A short course offered on an intermittent basis to meet the needs of special constituents.

THTR 399 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

THTR 401 - Theatre History: Beginning to 17th Century

3 Credit(s)

A study of the developments in the history of theatre from the theories of its own origins to its practices in 17th century Europe. A secondary focus of the course will be the study of selected dramas representative of these periods.

THTR 402 - Theatre History:18th Century - Present Day

3 Credit(s)

A study of the developments in the history of theatre from its practices in the 18th century to the present day. A secondary focus of the course will be the study of selected dramas representative of these periods and of dramatic practices in non-European countries or America.

THTR 403 - Shakespeare

3 Credit(s)

An advanced study of the plays of William Shakespeare. Emphasis will be placed upon analysis and interpretation of the drama structure, the dramatic action, and the language of representative comedies, histories, and tragedies.

THTR 430 - Business of Theatre

3 Credit(s)

This course is an exploration of the business of theatre, with the purpose of preparing students for entrance into the professional and/or academic world of theatre post-graduation.

THTR 465 - Modern Theatre

3 Credit(s)

Study of theatre history and the diverse trends in dramatic literature during the 19th century and early to mid-20th century, as viewed through the works of the major playwrights of Europe and the United States. The focus of the course will be placed equally upon history, script analysis, and dramaturgy.

THTR 470 - Classical Theatre

3 Credit(s)

A chronological study of the major periods of theatre history and dramatic literature, from the emergence of Greek tragedy in the 5th century B.C. to English Restoration Comedy. The focus of the course will be placed equally upon history, script analysis and dramaturgy.

THTR 472 - Contemporary Theatre

3 Credit(s)

An inclusive study of theatre history and dramatic literature from 1965 through the present day with a specific

emphasis on multicultural theatre. The focus of the course will be placed equally upon history, script analysis, and dramaturgy.

THTR 479 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

THTR 480 - Dramatic Theory and Criticism

3 Credit(s)

An advanced examination of selected critical writings of major theorists and critical theories in theatre, beginning with the study of Aristotle and including the application of contemporary theories to a variety of playscripts.

THTR 490 - Senior Thesis

3 Credit(s)

An advanced examination of a single area of theatre. This is the graduating senior's capstone project. The precise nature of the project will be designed in consultation with the student's advisor. Theses may include a significant research and writing project or a creative performing arts project, such as the direction or design or stage management of a play. Instructor permission is required for registration into this course.

THTR 492 - Workshop

1 to 6 Credit(s)

A short course offered on an intermittent basis to meet the needs of special constituents.

THTR 499 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

THTR 579 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

WATR 101 - Water Essentials: How Water Works

3 Credit(s)

This course is an introduction and overview of water in the West, from its basic chemical structure and physics as well as hydrology and water's role in nature to how water serves and is managed as a beneficial resource for people. This

course introduces foundational concepts of water's functional properties, how humans have put water to work and how we have developed systems of water allocation, administration, and management, including an overview of core terminology, and fundamental principles of water management. The course will focus on the Western water environment and issues, with specific discussions on the application and administration of water in Colorado's Rio Grande Basin.

WATR 201 - Fundamentals and Functions of Water

3 Credit(s)

This course is the second in a two-course series emphasizing essential water education. It will expand on fundamental concepts of ground and surface water functions and management as introduced in the prerequisite course, WATR 101 Water Essentials: How Water Works in the West. The design of this course is to explore the hydrologic processes and cycle in terms of both ground and surface water; examine the environmental aspects of watersheds that affect the hydrologic output, including forest health, precipitation accumulation, and infrastructure regulating surface water runoff; examine and analyze the administration of water and agricultural water use, with a focus and field experiences in the San Luis Valley and Rio Grande Basin of Colorado. The course will include required field trips.

Prerequisite(s):

WATR 101 Minimum Grade: C- OR T

WS 201 - Women's Studies

3 Credit(s)

An interdisciplinary analysis of women's position in society as presented through the disciplines of history, sociology, anthropology, theology, psychology, literature, and the fine arts. The course will examine theoretical approaches to the differential access to power between men and women and the existence of patriarchy in Western culture.

WS 379 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interest in the field.

WS 599 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Chair.

All Programs

Associate of Arts

As part of the Graduation Requirements for Undergraduates, Complete:

General Education Requirements (31 Credits Total)

Area I. Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T

OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II. Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III. Mathematics (3 credits)

MATH 104 - Finite Mathematics GT-MA1

3 Credit(s)

Topics covered include functions and their graphs, matrices, linear programming, probability, and descriptive statistics. Applications are presented from the areas of biology, business, behavioral sciences, economics, and the social sciences.

Prerequisite(s):

MATH 97 Minimum Grade: S-C or T
OR

MATH 99 Minimum Grade: S-C or T

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

ACT Math - Minimum Score: 19

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and

geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T
OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Area IV. Social and Behavioral Sciences/History (9 credits)

- at least one course must be a GT-SS*
- At least one course must be a GT-HII course
- the remaining course may come from either category
- Only one ECON course may be used towards the requirements in this General Education area

GT-SS* Courses

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of

the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

GT-HI1 Courses

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V. Physical and Natural Sciences (7 Credits)

One credit must be a lab:

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- OR BIOL-209 Minimum Grade: T OR BIOL-209 Minimum Grade: C- AND (CHEM-131 Minimum Grade: C- OR CHEM-131 Minimum Grade: T) OR (CHEM-111 Minimum Grade: C- OR CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

CHEM 103 - Introduction to Forensic Chemistry GT-SC1

4 Credit(s)

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

CHEM 103L - Introduction to Forensic Chemistry Lab GT-SC1

0 Credit(s)

Required companion laboratory to CHEM 103.

Co-requisite(s): CHEM 103

CHEM 104 - Chemistry in Context GT-SC2

3 Credit(s)

This course is designed to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and in significant issues facing science, technology, and society.

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2

3 Credit(s)

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

29 Elective Credits

Associate of Arts, Social Studies Emphasis

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

As Part of the Graduation Requirements for Undergraduates, Complete:

General Education Requirements (31 Credits Total)

Area I. Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18
OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T
OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II. Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and

readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T
AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III. Mathematics (3 credits)

MATH 104 - Finite Mathematics GT-MA1

3 Credit(s)

Topics covered include functions and their graphs, matrices, linear programming, probability, and descriptive statistics. Applications are presented from the areas of biology, business, behavioral sciences, economics, and the social sciences.

Prerequisite(s):

MATH 97 Minimum Grade: S-C or T

OR

MATH 99 Minimum Grade: S-C or T

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

ACT Math - Minimum Score: 19

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T
OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T
OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T
OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Area IV. Social and Behavioral Sciences/History (9 credits)

- at least one course must be a GT-SS*
- At least one course must be a GT-H11 course
- the remaining course may come from either category
- Only one ECON course may be used towards the requirements in this General Education area

GT-SS* Courses

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

GT-HI1 Courses

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V. Physical and Natural Sciences (7 Credits)

One credit must be a lab:

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- OR BIOL-209 Minimum Grade: T OR BIOL-209 Minimum Grade: C- AND (CHEM-131 Minimum Grade: C- OR CHEM-131 Minimum Grade: T) OR (CHEM-111 Minimum Grade: C- OR CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

CHEM 103 - Introduction to Forensic Chemistry GT-SC1**4 Credit(s)**

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

CHEM 103L - Introduction to Forensic Chemistry Lab GT-SC1**0 Credit(s)**

Required companion laboratory to CHEM 103.

Co-requisite(s): CHEM 103

CHEM 104 - Chemistry in Context GT-SC2**3 Credit(s)**

This course is designed to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and in significant issues facing science, technology, and society.

CHEM 111 - Introductory Chemistry GT-SC1**4 Credit(s)**

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T
OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2

3 Credit(s)

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity,

quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

Specific Courses Required for This Degree

- History - 9 Credits (in addition to those taken for General Education Area II):

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an

understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Government (3 Credits)

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ANTH 205 - Physical Anthropology

3 Credit(s)

The course will examine physical anthropology as a sub discipline of anthropology. The goal is to understand how the physical realities of being human affects the nature of culture. The central theme will be the evolution of humans from the earliest hominid forms to modern Homo sapiens. The course will focus on the mechanisms of evolution, an understanding of primate behavior in general, and the fossil evidence for hominid development.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

Philosophy (6 Credits)

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 202 - Ethics

3 Credit(s)

An examination of criteria governing ethical responses in typical situations as presented by representative thinkers. The application of principles in the development of reasonable standards of conduct and in the formulation of codes of ethics.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

Elective Courses

Students may, in consultation with the department chair of HAPPS, select enrichment courses with an HGP/HIST/POLS/PHIL/ANTH prefix, another course at the 100- to 200-level approved by the department chair, or any course from the menu above not taken to fulfill content area requirements.

Total completion of a minimum of 60 credits for this degree

Associate of Arts, Studio Art Emphasis

Go to: Art

As part of the Graduation Requirements for Undergraduates, Complete:

General Education Requirements (31 Credits Total)

Area I. Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T

OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II. Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III. Mathematics (3 credits)

MATH 104 - Finite Mathematics GT-MA1

3 Credit(s)

Topics covered include functions and their graphs, matrices, linear programming, probability, and descriptive statistics. Applications are presented from the areas of biology, business, behavioral sciences, economics, and the social sciences.

Prerequisite(s):

MATH 97 Minimum Grade: S-C or T
OR

MATH 99 Minimum Grade: S-C or T

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

ACT Math - Minimum Score: 19

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and

geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T
OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Area IV. Social and Behavioral Sciences/History (9 credits)

- at least one course must be a GT-SS*
- At least one course must be a GT-HII course
- the remaining course may come from either category
- Only one ECON course may be used towards the requirements in this General Education area

GT-SS* Courses

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of

the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

GT-HI1 Courses

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V. Physical and Natural Sciences (7 Credits)

One credit must be a lab:

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- OR BIOL-209 Minimum Grade: T OR BIOL-209 Minimum Grade: C- AND (CHEM-131 Minimum Grade: C- OR CHEM-131 Minimum Grade: T) OR (CHEM-111 Minimum Grade: C- OR CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

CHEM 103 - Introduction to Forensic Chemistry GT-SC1

4 Credit(s)

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

CHEM 103L - Introduction to Forensic Chemistry Lab GT-SC1

0 Credit(s)

Required companion laboratory to CHEM 103.

Co-requisite(s): CHEM 103

CHEM 104 - Chemistry in Context GT-SC2

3 Credit(s)

This course is designed to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and in significant issues facing science, technology, and society.

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2

3 Credit(s)

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

Required Core courses

AR 105 - Introduction to Art Criticism

3 Credit(s)

This course introduces students to art criticism and critical thinking in the field of visual art. Exercises in reading about art, observing art, and talking and writing about art, will develop the student's ability to discuss their own work and a wide variety of artworks by others. Students will be introduced to and practice techniques for reading, thinking, writing, and speaking critically as applied to art.

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

AR 252 - Beginning 3D - Form and Extended Media

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to fabrication and subtractive processes and materials. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in introductory metal fabrication, CAD/CAM technology, metal casting, and wood or stone carving. This course has a course specific fee to cover the costs of some materials.

Choose 1-3 courses from the following

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

Choose 1-3 courses from the following

- AR 3XX - 3D FXM Rotator **3 Credit(s)**

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-

OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing

3 Credit(s)

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged

to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

Total completion of a minimum of 60 credits for this degree

Associate of Arts, Theatre Emphasis

Go to: Theatre

As Part of the Graduation Requirements for Undergraduates, Complete:

General Education Requirements (31 Credits Total)

Area I. Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test

scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T

OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II. Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T
AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III. Mathematics (3 credits)

MATH 104 - Finite Mathematics GT-MA1

3 Credit(s)

Topics covered include functions and their graphs, matrices, linear programming, probability, and descriptive statistics. Applications are presented from the areas of biology, business, behavioral sciences, economics, and the social sciences.

Prerequisite(s):

MATH 97 Minimum Grade: S-C or T
OR

MATH 99 Minimum Grade: S-C or T

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

ACT Math - Minimum Score: 19

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers.

Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T

OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Area IV. Social and Behavioral Sciences/History (9 credits)

- at least one course must be a GT-SS*
- At least one course must be a GT-HII course
- the remaining course may come from either category
- Only one ECON course may be used towards the requirements in this General Education area

GT-SS* Courses

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

GT-HI1 Courses

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V. Physical and Natural Sciences (7 Credits)

One credit must be a lab:

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course

includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430
AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

CHEM 103 - Introduction to Forensic Chemistry GT-SC1

4 Credit(s)

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

CHEM 103L - Introduction to Forensic Chemistry Lab GT-SC1

0 Credit(s)

Required companion laboratory to CHEM 103.

Co-requisite(s): CHEM 103

CHEM 104 - Chemistry in Context GT-SC2

3 Credit(s)

This course is designed to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and in significant issues facing science, technology, and society.

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2

3 Credit(s)

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T

AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

Completion of the following Theatre Courses

THTR 210 - Stage Makeup

3 Credit(s)

Fundamental elements of design and application of theatre makeup. Painted theatrical makeup, latex, crepe hair, putty wax, prosthetics, and simulated physical trauma will be executed in this course.

THTR 213 - Oral Interpretation of Literature

3 Credit(s)

Helps develop effectiveness in personal expression and abilities in the oral interpretation of fiction, nonfiction, and poetry.

THTR 223 - Acting

3 Credit(s)

An introduction to the art of performing using the Stanislavski system of acting. Classes will consist primarily of in-class activities designed to demonstrate acting concepts and principles. This course requires active participation in discussions, exercises, and the presentation of performances.

THTR 242 - Voice for Performance

3 Credit(s)

Study of the physical nature of voice production and the sound and mechanisms of speech, including articulation, register, and range. Individual analysis and performance.

THTR 288 - Physical Acting

3 Credit(s)

This course focuses on the physical aspects of acting. While previous acting courses introduced techniques dealing with creating a character, script analysis, and scene work, this course explores alternative movement-based approaches to acting. Instructor permission must be obtained to register for this course.

Prerequisite(s):

THTR 223 Minimum Grade: C- OR T

Completion of Portfolio Requirements as specified by the Theatre Department

Total completion of a minimum of 60 credits for this degree

Associate of Science

As Part of the Graduation Requirements for Undergraduates, Complete:

General Education Requirements (31 Credits Total)

Area I. Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T
OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II. Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T
AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III. Mathematics (3 credits)

MATH 104 - Finite Mathematics GT-MA1

3 Credit(s)

Topics covered include functions and their graphs, matrices, linear programming, probability, and descriptive statistics. Applications are presented from the areas of biology, business, behavioral sciences, economics, and the social sciences.

Prerequisite(s):

MATH 97 Minimum Grade: S-C or T
OR

MATH 99 Minimum Grade: S-C or T

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

ACT Math - Minimum Score: 19

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T
OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T
OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T
OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1**5 Credit(s)**

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Area IV. Social and Behavioral Sciences/History (9 credits)

- at least one course must be a GT-SS*
- At least one course must be a GT-HI1 course
- the remaining course may come from either category
- Only one ECON course may be used towards the requirements in this General Education area

GT-SS* Courses**ANTH 201 - Cultural Anthropology GT-SS3****3 Credit(s)**

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ECON 255 - Macroeconomics Principles GT-SS1**3 Credit(s)**

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

GT-HI1 Courses

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V. Physical and Natural Sciences (7 Credits)

One credit must be a lab:

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

CHEM 103 - Introduction to Forensic Chemistry GT-SC1

4 Credit(s)

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

CHEM 103L - Introduction to Forensic Chemistry Lab GT-SC1

0 Credit(s)

Required companion laboratory to CHEM 103.

Co-requisite(s): CHEM 103

CHEM 104 - Chemistry in Context GT-SC2

3 Credit(s)

This course is designed to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and in significant issues facing science, technology, and society.

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T
OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2

3 Credit(s)

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-

OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1**1 Credit(s)**

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1**4 Credit(s)**

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T

AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1**1 Credit(s)**

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T

AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

18 Elective Credits from Business or the Sciences

11 Elective Credits

Associate of Science, Engineering Emphasis

Go to: Engineering and Computer Science

The associate degree is an excellent option for students interested in mechanical engineering but not yet ready to commit to a 4-year degree. Students can also earn a highly sought-after Colorado State University mechanical engineering bachelor's degree from the Adams State University campus in Alamosa, Colorado. Students in the San Luis Valley can stay close to home while learning from distinguished faculty of two universities, and benefit from access to CSU resources.

Find out more about the Bachelor of Science in Mechanical Engineering (Partnership with CSU)

Engineering Degree Requirements

First Year Seminar

FYS 101 - First Year Seminar

1 to 3 Credit(s)

First-year students launch into the Adams Experience through a First-Year Seminar (FYS) course. FYS will engage students by creating habits for success, learning to navigate college life, and build skills for success. Each FYS will focus on a unique topic that will be the theme of course discussions, experiences, and assignments. FYS will develop academic and social capital and support a successful transition into higher education, instill lifelong learning, and reinforce student persistence.

General Education Requirements for the Engineering Degree

Area I - Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass

the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T

OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II - Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and

construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III - Mathematics

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

Area IV - Social and Behavioral Sciences and History

One course designated as GT-SS1 (3 credits)

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

One course designated as GT-HI1 (3 credits)

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V - Natural and Physical Sciences

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

The Following Required Courses

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T

AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

Total: 62 Credits

Note for the Associate of Science, Engineering Emphasis Degree

This Associates degree plan requires only 6 credits from General Education Area IV rather than the standard 9 credits and is an exception in that regard. This exception is necessary due to the external engineering accreditation requirements by ABET which results in a bachelor's degree of 129 credits rather than the usual Colorado maximum of 120 credits. Every engineering degree in the state of Colorado has a "general education waiver" from the common GT-Pathways curriculum requirements.

Associate of Science, General Business Emphasis

Go to: Business

As Part of the Graduation Requirements for Undergraduates, Complete:

General Education Requirements (31 Credits Total)

Area I. Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass

the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T

OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II. Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and

construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III. Mathematics (3 credits)

MATH 104 - Finite Mathematics GT-MA1

3 Credit(s)

Topics covered include functions and their graphs, matrices, linear programming, probability, and descriptive statistics. Applications are presented from the areas of biology, business, behavioral sciences, economics, and the social sciences.

Prerequisite(s):

MATH 97 Minimum Grade: S-C or T
OR

MATH 99 Minimum Grade: S-C or T

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

ACT Math - Minimum Score: 19

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T
OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T
OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T
OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Area IV. Social and Behavioral Sciences/History (9 credits)

- at least one course must be a GT-SS*
- At least one course must be a GT-HII course
- the remaining course may come from either category
- Only one ECON course may be used towards the requirements in this General Education area

GT-SS* Courses

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

GT-HI1 Courses

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V. Physical and Natural Sciences (7 Credits)

One credit must be a lab:

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course

includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430
AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

CHEM 103 - Introduction to Forensic Chemistry GT-SC1

4 Credit(s)

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

CHEM 103L - Introduction to Forensic Chemistry Lab GT-SC1

0 Credit(s)

Required companion laboratory to CHEM 103.

Co-requisite(s): CHEM 103

CHEM 104 - Chemistry in Context GT-SC2

3 Credit(s)

This course is designed to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and in significant issues facing science, technology, and society.

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2

3 Credit(s)

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T

AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

Completion of the Following

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

- BUS or ECON electives (100- or 200-level): **3 Credit(s)**
- Electives: **4 Credit(s)**

Total completion of a minimum of 60 credits for this degree

Bachelor of Arts in Anthropology

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

Required Courses

Core

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ANTH 205 - Physical Anthropology

3 Credit(s)

The course will examine physical anthropology as a sub discipline of anthropology. The goal is to understand how the physical realities of being human affects the nature of culture. The central theme will be the evolution of humans from the earliest hominid forms to modern Homo sapiens. The course will focus on the mechanisms of evolution, an understanding of primate behavior in general, and the fossil evidence for hominid development.

GSCI 201 - Introduction to Cartography and GIS

3 Credit(s)

This course will introduce students to the core concepts of Geographic Information Systems (GIS) and the importance

and relevance of GIS in today's world. Students will learn what GIS is, what it is used for, and how to perform basic and core tasks involving GIS analysis. An objective is to help students develop the ability to think critically about cartographic processes and representations as well as develop their skills in creating maps. Students are expected to have basic computer proficiency prior to enrolling in this course.

PSYC 211 - Introduction to Statistics Lecture/Lab

4 Credit(s)

In this course, students will develop a working appreciation of statistical concepts and applications as employed in the behavioral sciences. The course presents descriptive and inferential statistics and their applications. The laboratory component of this course gives students an opportunity to develop skills in using statistical software.

Prerequisite(s):

PSYC 101 Minimum Grade: C- or T

AND

MATH 97 Minimum Grade: S-A or S-B or S-C or T

OR

MATH 99 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 121 Minimum Grade: C- or T

OR

MATH 140 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

SOC 311 - Social Statistics

4 Credit(s)

This course presents a general overview of the statistical methods most commonly used in sociology and the social sciences. As a laboratory component, students will become proficient in SPSS, a computer program designed to aid statistical analysis. These skills will enable the student to read popular applications of statistics in the media with a critical eye; assess the use of statistics in the professional sociological literature; and use statistical tools to answer the sociological questions of interest.

Prerequisite(s):

SOC 255 Minimum Grade: C-

AND

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

ANTH 300 - Archaeology

3 Credit(s)

This course will provide an overview of archaeological method and theory with a particular emphasis on American archeology, and provide a general survey of prehistory with an emphasis on the western United States.

ANTH 310 - Anthropological Linguistics

3 Credit(s)

After a general introduction to the nature of language (descriptive linguistics) this course will focus on human communication and the uses of language (psycholinguistics and sociolinguistics) and on the language cognition relationship (cognitive anthropology and symbolic anthropology).

ANTH 330 - Humans and Water

3 Credit(s)

This class will explore the relationship between humans and water through space and time, focusing on the American West. We will look at how different cultural groups interact with and manipulate water, as well as how they view the natural resource. In addition, we will analyze how changes in water resources influenced human cultures.

ANTH 360 - Forensic Anthropology

3 Credit(s)

This class examines the science and methods of physical anthropology as it relates to the medico-legal work done to identify unknown human remains in atypical circumstances. This introductory course will introduce students to human osteology and dentition in relation to identifying age, sex, stature, and ancestry, as well as bone pathologies and techniques for estimating time of death and post-mortem changes. As part of the course, some visual materials will depict trauma and decomposition of human remains.

ANTH 349 - Anthropology Internship

3 to 6 Credit(s)

This course provides the student with meaningful hands on experience in the field of Anthropology. Students will engage with internship work at a research library, museum, community organization, government agency, or other applicable institution to enhance their knowledge of sources, research methods, institutional cultures, and potential work environments.

PSYC 355 - Research Methods in Psychology

4 Credit(s)

This course focuses on the procedures and potential problems associated with research in the behavioral sciences. Students learn how to develop research questions, choose an appropriate research design, collect and analyze data using statistical software, interpret results, and write a report using APA style. The laboratory component provides supervised hands-on experience in project development.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T
AND

LS 225 Minimum Grade: C- OR T

OR

SOC 455 - Qualitative Research Methods

4 Credit(s)

This course is designed to expose students to a variety of qualitative research methods. Students will be instructed in the fundamentals of research design and implementation, including ethical considerations. Students will read and study

the research projects of selected sociologists. Students will engage in multiple hands-on activities to practice research methods. Each student will design a qualitative research project. In the lab component of the course, students will analyze and interpret qualitative data. Finally, students will learn to conduct content analysis, and use grounding theory to code and analyze their data and write a final project report. This course includes a lab day each week and is a 4-credit course.

Prerequisite(s):

SOC 201 Minimum Grade: C-
AND

SOC 255 Minimum Grade: C-

ANTH 471 - Senior Seminar in Anthropology

3 Credit(s)

This is a capstone course which will cover the central theories that have driven the field of anthropology over the last 200 years. All students enrolled in the Senior Seminar will also write their Senior Comprehensive Examinations as part of the departmental requirement for all History/Government majors.

Plus, select 8 Courses (at least 4 from ANTH) from the following Electives

ANTH 330 - Humans and Water

3 Credit(s)

This class will explore the relationship between humans and water through space and time, focusing on the American West. We will look at how different cultural groups interact with and manipulate water, as well as how they view the natural resource. In addition, we will analyze how changes in water resources influenced human cultures.

ANTH 339 - Field School in Archaeology

6 Credit(s)

The purpose of this course is to provide students with the basic skills, and the theories from which they are derived, necessary to do archaeological fieldwork. The student will learn basic techniques of site identification and recording, excavation, and artifact processing and analysis. In addition, they will learn instrument surveying and introductory applications of geographic information systems. The skills taught will be appropriate for either prehistoric or historic sites.

ANTH 360 - Forensic Anthropology

3 Credit(s)

This class examines the science and methods of physical anthropology as it relates to the medico-legal work done to identify unknown human remains in atypical circumstances. This introductory course will introduce students to human osteology and dentition in relation to identifying age, sex, stature, and ancestry, as well as bone pathologies and techniques for estimating time of death and post-mortem changes. As part of the course, some visual materials will depict trauma and decomposition of human remains.

ANTH 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

ANTH 450 - Southwest Archaeology

3 Credit(s)

This course explores the greater Southwest from the earliest human inhabitants to Spanish colonization. We will discuss significant changes and trends in subsistence, technology, social systems, and political organization over roughly 15,000 years; from hunter-gatherers following mammoths on the landscape to the Pueblo Revolt of 1680. The course will give students an appreciation of the adaptations of people in the Southwest to an often harsh environment, while also introducing them to the methods and theories archaeologists use to understand the past.

ANTH 460 - Medical Anthropology

3 Credit(s)

This course will explore the cross-cultural significance of health and wellness from an anthropological perspective. We will delve into the complex interplay of biological, psychological, social, environmental, and political-economic processes on the concepts of illness, suffering, and healing. Particular emphasis will be placed on the ethnographic approach to the lived context in which wellness and suffering are experienced, narrated, and addressed.

BIOL 321 - Genetics

3 Credit(s)

A study of Mendelian and molecular genetics of eukaryotes and prokaryotes. Discussions include basic Mendelian principles, meiosis/mitosis, linkage, gene expression, and molecular techniques. Course includes 3 hours of lecture and 1 hour of peer learning activities per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

OR

CHEM-132 Minimum Grade: C- OR T

AND

CHEM-132L Minimum Grade: C- OR T

BIOL 332 - Evolution

3 Credit(s)

A study of the history and development of evolutionary theory. Consideration is given to evidence for and mechanisms of evolution from anatomical, developmental, geological, mathematical, and molecular perspectives. Credit or concurrent registration in BIOL 330 is recommended. This course includes 3 hours of lecture per week.

Prerequisite(s):

BIOL 209 Minimum Grade: C- OR T

AND

BIOL 210 Minimum Grade: C- OR T

GSCI 300 - World Geography

3 Credit(s)

The course examines human or cultural geography with a global perspective. It uses a topic centered approach. It is intended to give the student an appreciation of the interaction between physical geography, environment, and cultural practices.

GSCI 321 - Geomorphology with Environmental Applications

4 Credit(s)

This course is a study of the processes that control the development of the materials and landforms found on the earth's surface. An emphasis is placed upon the hydrologic and variables in generating landforms and human interactions with these formative processes. Field trips, topographic map, and aerial photo exercises are required. Offered spring semester of even-numbered years.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 330 - Nature and Properties of Soils

4 Credit(s)

This course analyzes soils as natural bodies and managed resources, focusing on impacts of landforms, hydrology, nutrients, and organisms on soils. The laboratory includes analysis of soil patterns, methods of sampling, and techniques of determining physical and chemical properties of soils. Course includes three hours of lecture and two hours of laboratory per week.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T
AND

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

GSCI 343 - Sedimentology and Stratigraphy

4 Credit(s)

This course studies the origin and occurrence of sedimentary materials and their vertical succession. Sediment dynamics and structures will be explored within various depositional settings. Course includes required field trips. GSCI-343 is complementary to Igneous and Metamorphic Petrology (GSCI-334).

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 420 - Remote Sensing

4 Credit(s)

The course considers acquisition and interpretation of remote sensed environmental data, theory and sensors, and manual and computerized interpretation methods.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T
AND

GSCI 201 Minimum Grade: C- OR T

HIST 305 - The American West

3 Credit(s)

Historical survey of the Indian-, Hispanic-, and English-speaking groups of the West. Emphasis is on the frontier period.

HIST 328 - Chicano History

3 Credit(s)

A survey of the historical development of the character, economy, social structure, politics, culture, and ideas of the Spanish-speaking people of Mexican descent in the U.S. from settlement until present, with particular attention given to the San Luis Valley.

POLS 393 - Women, Politics, and Culture

3 Credit(s)

Interdisciplinary analysis of politics and culture. Course examines the role of gender in the political culture of the United States and selected societies in industrialized and developing nations. Of special interest to those wishing to pursue an interest in women's studies and/or cultural anthropology.

PSYC 315 - Multicultural Issues

3 Credit(s)

In this course, students will explore various components of a multicultural society and the impact of social and cultural forces on identity development and formation. The processes of acculturation and assimilation will be discussed. Students will also gain insight into their own cultural experiences in a pluralistic society.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

PSYC 455 - Evolutionary Psychology

3 Credit(s)

This course provides students with a detailed and thorough examination of the impact of evolution on human behavior and mental processes. An emphasis using animal behavior and evolutionary processes as a model for understanding human behavior will be utilized. Students will also be exposed to a variety of topics including, the importance of science, the evidence for evolution, selective breeding, genetic and ecological contributions to behavior, the biological constraints on learning, the development of higher mental processes, complex social behavior, and sex differences in mating behavior and cognition.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

SOC 318 - Race, Class, and Gender

3 Credit(s)

The focus of this course is on the interrelated ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result and the dynamics of change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

Note

- Students must successfully complete Senior Assessment Procedures.
- Students may opt to complete the B.A. in HAPS at an accelerated pace to complete the degree in 3 years. Students desiring this option should contact an HAPS advisor.

Bachelor of Arts in Art Education, K-12 Licensure

Go to: Bachelor of Arts, K-12 Education Licensure

Go to: Art

Choose this degree if your goal is to specifically teach art in a K-12 classroom. As an Art Education major, you will spend time developing your personal artistic skills. However, you will also engage in educational theories, explore teaching methods, and participate in field experiences that are all required for teaching certification. Art Education majors have an advisor in both the Art and Education departments.

Degree Requirements

Art Requirements (51-54 Credits)

AR 105 - Introduction to Art Criticism

3 Credit(s)

This course introduces students to art criticism and critical thinking in the field of visual art. Exercises in reading about art, observing art, and talking and writing about art, will develop the student's ability to discuss their own work and a wide variety of artworks by others. Students will be introduced to and practice techniques for reading, thinking, writing, and speaking critically as applied to art.

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

AR 216 - Introduction to Art Education

3 Credit(s)

This course is a study of art education as influenced by educational and philosophical developments throughout history as well as an exploration of current art education topics and approaches for teaching art in traditional and non-traditional settings. A background check must be completed through the Department of Teacher Education. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

Teacher Education Background Check Passed

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 252 - Beginning 3D - Form and Extended Media

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to fabrication and subtractive processes and materials. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in introductory metal fabrication, CAD/CAM technology, metal casting, and wood or stone carving. This course has a course specific fee to cover the costs of some materials.

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

OR

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

OR

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

AR 334 - Elementary School Art Education Methods

3 Credit(s)

A course designed to explore the theoretical and practical approaches to implementing a program of art education for grades K-6. Emphasis is placed on strategies that will encourage a discipline-based art education model of instruction. Through hands-on involvement in various art media, students are given opportunities for creative problem solving. A background check must be completed through the Department of Teacher Education. This course has a course specific fee to cover the costs of some materials. A 20-hour, supervised field-based experience is a course requirement. Students

will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Teacher Education Background Check Passed
AND

AR 216 Minimum Grade: C OR T

AND

ED 200 Minimum Grade: C OR T

OR

ED 220 Minimum Grade: C OR T

AR 335 - Secondary School Art Education Methods

3 Credit(s)

In this advanced course of study, students are given the opportunity to explore more completely those professional practices utilized in the teaching of art in the secondary school. Through hands-on involvement in various media, students are given opportunities for creative problem solving. This course is intended for juniors and seniors. Freshmen and sophomores cannot enroll in this course. A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

ED 200 Minimum Grade: C OR T
OR

ED 220 Minimum Grade: C OR T

AND

AR 334 Minimum Grade: C OR T

AND

Teacher Education Background Check Passed

AR 364 - History of Art I

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms prehistoric times to the Eighteenth Century.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 365 - History of Art II

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms from the 18th Century to the 21st Century. Additionally this course includes a brief survey of the arts of African, Asian, and Native American cultures.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

Plus 3 Hours From The Following:

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 306 - Illustrator

3 Credit(s)

This course is an advanced design class. Using Adobe Illustrator, students will study design concepts related to computer graphics, illustration, and typography as well as historical traditions in graphic design.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T

OR

AR 281 Minimum Grade: C- OR T

AR 310 - Photoshop

3 Credit(s)

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T

OR

AR 281 Minimum Grade: C- OR T

Art Emphasis Area

Complete a 9 hour area of emphasis in one of the following areas: Art History, Drawing, Painting, Photography, Printmaking, Form and Extended Media (these 9 hours will include classes from the above areas, to add a minimum of 3 hours or a maximum of 6 hours depending on the chosen emphasis).

Plus Additional K-12 Licensure Requirements from the School of Education

Bachelor of Arts, K-12 Education Licensure

Bachelor of Arts in Biology, Liberal Arts Emphasis

Go to: Biology

Core Requirements

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

BIOL 321 - Genetics

3 Credit(s)

A study of Mendelian and molecular genetics of eukaryotes and prokaryotes. Discussions include basic Mendelian principles, meiosis/mitosis, linkage, gene expression, and molecular techniques. Course includes 3 hours of lecture and 1 hour of peer learning activities per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

OR

CHEM-132 Minimum Grade: C- OR T

AND

CHEM-132L Minimum Grade: C- OR T

BIOL 323 - Cellular Biology

3 Credit(s)

The study of higher plant and animal cells and tissues at the biochemical level including: organelle structure, function, and metabolic role; cell growth, differentiation and specialization; and a survey of instrumentation and methodologies for investigating life processes at the biochemical level. Course includes three hours of lecture per week. Concurrent

registration in BIOL 321 and BIOL 325 is recommended.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

BIOL 325 - Cellular Biology/Genetics Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with BIOL 321 and BIOL 323. Laboratory exercises in this course are designed to demonstrate, complement, and extend concepts considered in BIOL 321 and BIOL 323.

Students will engage in exercises involving a variety of techniques in which data pertinent to both disciplines will be gathered and analyzed. Course includes 3 hours of laboratory per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

AND

CHEM 111L Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 131L Minimum Grade: C- OR T

Co-requisite(s): BIOL 321 BIOL 323

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

BIOL 332 - Evolution

3 Credit(s)

A study of the history and development of evolutionary theory. Consideration is given to evidence for and mechanisms of evolution from anatomical, developmental, geological, mathematical, and molecular perspectives. Credit or concurrent registration in BIOL 330 is recommended. This course includes 3 hours of lecture per week.

Prerequisite(s):

BIOL 209 Minimum Grade: C- OR T

AND

BIOL 210 Minimum Grade: C- OR T

- Choose two 400-level biology courses **3-4 Credit(s)**

Completion of required support courses

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T

OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 112 - Introduction to Organic/Biological Chemistry

4 Credit(s)

A study of the fundamental concepts of organic chemistry and biochemistry. Will not satisfy requirements for a chemistry major, minor or pre-professional studies (pre-med etc.) The course is satisfactory for biology majors who take only one year of chemistry, and for HPPE advanced track.

Prerequisite(s):

CHEM 111 Minimum Grade: C- OR T
OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 112L

CHEM 112L - Introduction to Organic/Biological Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 112.

Co-requisite(s): CHEM 112

OR

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

CHEM 321 - Organic Chemistry

4 Credit(s)

A study of the relationship between structure and reactivity of carbon-containing compounds.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 321L

CHEM 321L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 321. Laboratory time will be divided among techniques, preparation, and mechanistic studies.

Co-requisite(s): CHEM 321

Note

For the Bachelor of Arts in Biology, a minor of the student's choice must be completed.

Bachelor of Arts in Biology, Science Education Emphasis with Secondary Teacher Licensure

Go to: Bachelor of Arts, Secondary Education Licensure

Go to: Biology

Core Requirements

Completion of the following required courses:

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score:

18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- OR BIOL-209 Minimum Grade: T OR BIOL-209 Minimum Grade: C- AND (CHEM-131 Minimum Grade: C- OR CHEM-131 Minimum Grade: T) OR (CHEM-111 Minimum Grade: C- OR CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

BIOL 321 - Genetics

3 Credit(s)

A study of Mendelian and molecular genetics of eukaryotes and prokaryotes. Discussions include basic Mendelian principles, meiosis/mitosis, linkage, gene expression, and molecular techniques. Course includes 3 hours of lecture and 1 hour of peer learning activities per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

OR

CHEM-132 Minimum Grade: C- OR T

AND

CHEM-132L Minimum Grade: C- OR T

BIOL 323 - Cellular Biology

3 Credit(s)

The study of higher plant and animal cells and tissues at the biochemical level including: organelle structure, function, and metabolic role; cell growth, differentiation and specialization; and a survey of instrumentation and methodologies for investigating life processes at the biochemical level. Course includes three hours of lecture per week. Concurrent registration in BIOL 321 and BIOL 325 is recommended.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

BIOL 325 - Cellular Biology/Genetics Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with BIOL 321 and BIOL 323. Laboratory exercises in this course are designed to demonstrate, complement, and extend concepts considered in BIOL 321 and BIOL 323. Students will engage in exercises involving a variety of techniques in which data pertinent to both disciplines will be gathered and analyzed. Course includes 3 hours of laboratory per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

AND

CHEM 111L Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 131L Minimum Grade: C- OR T

Co-requisite(s): BIOL 321 BIOL 323

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T
AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

BIOL 332 - Evolution

3 Credit(s)

A study of the history and development of evolutionary theory. Consideration is given to evidence for and mechanisms of evolution from anatomical, developmental, geological, mathematical, and molecular perspectives. Credit or concurrent registration in BIOL 330 is recommended. This course includes 3 hours of lecture per week.

Prerequisite(s):

BIOL 209 Minimum Grade: C- OR T
AND

BIOL 210 Minimum Grade: C- OR T

BIOL 493 - Thesis I

1 Credit(s)

First in a series of two capstone courses for biology majors designed to review and synthesize their biological background. The emphasis is on writing an independent research paper, or formal literature review of a selected topic in biology. Emphasis is on writing as a process and effective peer review. Course includes 2 hours of lecture per week. A minimum of six credit hours of 400- level biology coursework with grades C or better, or permission of the biology department is required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

Plus a Minimum of 4 Credits from the Following

BIOL 417 - Vascular Plant Systematics

4 Credit(s)

A study of vascular plants (tracheophytes), including phylogeny, taxonomy, molecular systematics, reproduction, ecological relationships, identification, collection, and preservation. Course includes 3 hours of lecture and 3 hours of laboratory per week

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 420 - Mycology

4 Credit(s)

A study of the biology of fungi with emphasis on their identification, classification, morphology, development, ecology, and economic significance. Course includes three hours of lecture and three hours of laboratory per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 423 - Plant Physiology

4 Credit(s)

A study of the mechanisms of plant function throughout development from seeds through reproduction. This course includes consideration of metabolism (photosynthesis, respiration, mineral nutrition), water relations, gas exchange, and developmental growth in response to hormones. An integrated laboratory component requires an independently researched project. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 430 - Plant Ecology

4 Credit(s)

A study of the physiological mechanisms underlying plant responses to abiotic constraints. Topics will include the function of plants and plant communities in relation to soils, climate, other plants, animals, and human activity. Course includes 3 hours of lecture and 3 hours of laboratory/field exercises per week. BIOL 417 is recommended.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

Plus a Minimum of Three Credits from the Following

BIOL 440 - Invertebrate Zoology

4 Credit(s)

A survey of the major groups of invertebrate animals from the Protozoa through Chordata with emphasis on anatomy, ecology, evolution, physiology, and taxonomy. Relationships will be demonstrated through study of selected invertebrate types including marine, freshwater, and terrestrial species. Course includes 3 hours of lecture and 3 hours of laboratory per week and is offered during spring term of even-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 460 - Ornithology

3 Credit(s)

An integrated lecture and laboratory course covering the major taxonomic groups of birds, their ecology, evolutionary fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Lecture topics are supplemented with laboratory and field identification. Course includes three hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 461 - Entomology

3 Credit(s)

Biology of insects with emphasis on anatomy, physiology, natural history, evolution, life cycles, and identification of major groups. This course included two hours of lecture and two hours of lab per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 463 - Ichthyology

3 Credit(s)

An integrated lecture and laboratory course covering the major economic groups of fishes, their ecology, evolutionary relationships, fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Course includes three hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 464 - Mammalogy

3 Credit(s)

An integrated lecture and laboratory course covering the major taxonomic groups of mammals, their ecology, evolutionary relationships, fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Course includes 3 hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 471 - Herpetology

3 Credit(s)

An integrated lecture and laboratory course covering the major taxonomic groups of amphibians and reptiles, their ecology, evolutionary relationships, fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Course includes three hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

Plus a Minimum of Three Credits from the Following

BIOL 404 - Physiological Zoology

3 Credit(s)

Consideration of structural, functional, and behavioral aspects of physiological mechanisms within an ecological context. Adaptations of animals in response to common, changing, and/or extreme environmental stresses will be emphasized at both proximate and ultimate levels of inquiry. This course includes 3 hours of lecture per week and is offered during spring term of odd-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 408 - Developmental Biology

4 Credit(s)

A lecture and laboratory exploration of the principles of cellular differentiation, morphogenesis, and development with emphasis on underlying genetic mechanisms. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 411 - Comparative Anatomy

4 Credit(s)

An integrated lecture/laboratory investigation of the anatomy and functional morphology of the major groups of chordates and vertebrates with emphasis on the comparative method, anatomical changes through evolutionary history, and inferential reconstruction of phyletic evolutionary descent. Course includes 3 hours of lecture and 3 hours of laboratory per week and is offered during fall term of odd-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 448 - Microbiology

4 Credit(s)

The study of bacteria, fungi, protozoans, and viruses with emphasis on their morphology, physiology, and medical and ecological interactions with human populations. Laboratory exercises are designed to provide experience in handling microorganisms, identification of bacteria, isolation of bacteriophages, and other basic principles of microbiology. Course includes 3 hours of lecture and 3 hours of laboratory per week. Chemistry 321/321L and CHEM-322/322L are recommended.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

Completion of Required Support Courses

CHEM 112 - Introduction to Organic/Biological Chemistry

4 Credit(s)

A study of the fundamental concepts of organic chemistry and biochemistry. Will not satisfy requirements for a chemistry major, minor or pre-professional studies (pre-med etc.) The course is satisfactory for biology majors who take only one year of chemistry, and for HPPE advanced track.

Prerequisite(s):

CHEM 111 Minimum Grade: C- OR T
OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 112L

CHEM 112L - Introduction to Organic/Biological Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 112.

Co-requisite(s): CHEM 112

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 226 - College Physics II

5 Credit(s)

The second course of a two-semester lecture-laboratory sequence introducing the fundamental principles of physics. In the second semester, students will be introduced to the areas of electricity, electric circuits, optics, and topics in modern physics. Conceptual understanding as well as problem-solving techniques will be emphasized in the lecture. The laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture.

Prerequisite(s):

PHYS 225 Minimum Grade: C- OR T

Recommended Courses

BIOL 205 - Human Anatomy and Physiology I

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body.

Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The integumentary, skeletal, muscular, and nervous systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Test - Minimum Score: 3 **OR** MATH 97 Minimum Grade: S or S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T and SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18 **OR** ENG 96 Minimum Grade: S or T

BIOL 206 - Human Anatomy and Physiology II

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The digestive, respiratory, circulatory, urinary, endocrine, and reproductive systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL 205 Minimum Grade: C- or T
OR

BIOL 210 Minimum Grade: C- or T

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 407 - Comparative Animal Physiology

4 Credit(s)

A lecture and laboratory course in which physiological principles common to all major animal phyla are discussed. Consideration of function ranges from biochemical to organismal levels and the comparative method is emphasized in the examination of physiological adaptations required to live in a variety of environments. Course includes 3 hours of lecture and 3 hours of laboratory per week and is offered during fall term of even-numbered years. Biochemistry

(CHEM-401 and 402) and senior standing are recommended.

Prerequisite(s):

BIOL-321 Minimum Grade: C- OR T
AND

BIOL-323 Minimum Grade: C- OR T
AND

BIOL-325 Minimum Grade: C- OR T
AND

BIOL-330 Minimum Grade: C- OR T
AND

BIOL-332 Minimum Grade: C- OR T
AND

CHEM-321 Minimum Grade: C- OR T
AND

CHEM-321L Minimum Grade: C- OR T
AND

CHEM-322 Minimum Grade: C- OR T
AND

CHEM-322L Minimum Grade: C- OR T

BIOL 448 - Microbiology

4 Credit(s)

The study of bacteria, fungi, protozoans, and viruses with emphasis on their morphology, physiology, and medical and ecological interactions with human populations. Laboratory exercises are designed to provide experience in handling microorganisms, identification of bacteria, isolation of bacteriophages, and other basic principles of microbiology. Course includes 3 hours of lecture and 3 hours of laboratory per week. Chemistry 321/321L and CHEM-322/322L are recommended.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T
AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 476 - Molecular Biology

5 Credit(s)

An introduction to the study of nucleic acids, genomes and molecular mechanisms with emphasis on genome organization, gene expression, and the techniques used in the study of molecular biology. Laboratory exercises will include standard methodologies such as restriction mapping, cloning, hybridization, DNA libraries, and PCR. Course includes three hours of lecture and four hours of laboratory per week. Senior standing is recommended.

Prerequisite(s):

BIOL 448 Minimum Grade: C- OR T

OR

CHEM 401 Minimum Grade: C- OR T

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

GSCI 112 - Earth History

4 Credit(s)

Introduction to the geological evolution of the earth through time using basic principles of stratigraphy and paleontology. Laboratory work includes identification and classification of fossils and correlation of sedimentary environments.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T

OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

Plus other courses required by the School of Education

Bachelor of Arts, Secondary Education Licensure

Bachelor of Arts in Business Administration, Advertising Emphasis

Go to: Business

In addition to the Graduation Requirements for Undergraduates:

Advertising Emphasis

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

Plus 4 Courses of the Following

AR 301 - Typography

3 Credit(s)

This course is intended primarily for art majors who chose graphic design as their area of emphasis. It is also open to any other art major or non-art major. This course will focus on a broad study of typography, its terminology, history, and application in the field of graphic design.

Prerequisite(s):

AR 206 Minimum Grade: C- OR T

AR 306 - Illustrator

3 Credit(s)

This course is an advanced design class. Using Adobe Illustrator, students will study design concepts related to computer graphics, illustration, and typography as well as historical traditions in graphic design.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T

OR

AR 281 Minimum Grade: C- OR T

AR 310 - Photoshop

3 Credit(s)

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T

OR

AR 281 Minimum Grade: C- OR T

AR 312 - Design for the Internet

3 Credit(s)

This course will provide an introduction to theories and practical experience with graphic design as applied to the Internet. Students will study the basics in web page and web site design using current industry standard software, HTML and XHTML. Within the course, students will create web pages and sites suitable for course work, professional purposes, and personal use. Students will also explore common web page formats and functions. Emphasis will be on the aesthetics of Internet design.

AR 381 - Intermediate Digital Photography

3 Credit(s)

Continued exploration of digital photography as an art medium. The course will delve further into photographic applications in Adobe Photoshop with emphasis on maximizing image quality using masks and blending modes. Introduction to fine art printing and papers. Emphasis on concept and creative expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 281 Minimum Grade: C- OR T

AR 401 - Advanced Graphic Design

3 Credit(s)

An advanced study of the design relating to the work of the graphic designer. Students learn PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 306 Minimum Grade: C- OR T

AND

AR 310 Minimum Grade: C- OR T

Complete these Required Courses

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 335 - Consumer Behavior

3 Credit(s)

Study of consumer behavior as it relates to the marketing functions. Emphasis on the models of consumer behavior and their application to practical marketing problems.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 345 - Advertising

3 Credit(s)

Discusses the history, purposes, and regulations of the advertising industry. Topics covered include creative principles, media advantages and disadvantages, media planning, regulation of advertising, and coordination with other promotion activities.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 448 - Interactive/Social Media Marketing

3 Credit(s)

This course focuses on relationship marketing, interactive marketing, integration of consumer data, Internet marketing (E-commerce), media advertising, catalogs, mailing lists, telemarketing, and the use of direct marketing techniques to replace or enhance the traditional marketing methods of retail and direct sales.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 454 - Market Research & Information

3 Credit(s)

Study of the theory and methods used in marketing research to address marketing problems. May include the completion of a research project where students learn by performing a research project from problem formulation to writing a research report. Also prepares the students for evaluating research performed by others.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T
AND

BUS 318 Minimum Grade: C- OR T

BUS 460 - Marketing Management

3 Credit(s)

Twelve hours of marketing courses and senior status required. Capstone course in marketing. Study of the problems faced by marketing managers as they make decisions and develop policies.

Prerequisite(s):

BUS 454 Minimum Grade: C- OR T

BUS 466 - Business Ethics Decision Making

3 Credit(s)

This course explores various ethical issues facing business leaders in modern society. Students will utilize current

issues to analyze ethical dilemmas and decision-making processes common to modern organizations. Emphasizes critical thinking, critical reading, and the importance of professional ethics.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

Plus 9 credits from speech and/or journalism

Plus 6 credits from business

Bachelor of Arts in Business Administration, Business Teacher Education Emphasis with Secondary Teacher Licensure

Go to: Bachelor of Arts, Secondary Education Licensure

Go to: Business

Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 320 - Bus Computer Applications II

3 Credit(s)

The focus of this course is to explore application software on a comprehensive level to gain expertise to support

decision-making and manage information. Study includes intermediate Word and Excel applications; intermediate to advanced PowerPoint; intermediate Access, integration of Office applications, and an introduction to HTML and building web pages.

Prerequisite(s):

BUS 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

BUS 513 - Methods of Teaching Business Education

3 Credit(s)

Topics include high school business curriculum, high school business student organizations, distributive education, cooperative office education, vocation certification, business textbook catalogs, equipment and classroom techniques using learning styles and multimedia methods.

Plus completion of 1 of the following areas of specialization

Accounting

BUS 305 - Intermediate Accounting I

4 Credit(s)

The first of a two-course sequence of Intermediate Accounting designed to develop a framework for the role financial accounting plays in the world of business. A study of the conceptual basis of accounting will be conducted, creating a more in-depth understanding of the preparation and interpretation of financial statements and related information. This course will focus on the study of modern-day accounting theory and application of generally accepted accounting principles to various topics and financial statement elements. Students will be introduced to the U.S. Accounting Standards Codification and basic research tools.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

OR

BUS 307 - Managerial Cost Accounting I

3 Credit(s)

Principles and methods of recording and interpreting cost data. Major emphasis on developing accounting information for planning, control, and decision making.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

Marketing - 6 Credits from the following

BUS 315 - Sales and Sales Management

3 Credit(s)

This course is designed to introduce students to management techniques as they relate specifically to the marketing and

sales area. Topics covered include: the selling process, compensation systems, motivation and leadership, time and territory management, sales forecasting, quotas, and evaluating the sales force.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 335 - Consumer Behavior

3 Credit(s)

Study of consumer behavior as it relates to the marketing functions. Emphasis on the models of consumer behavior and their application to practical marketing problems.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 345 - Advertising

3 Credit(s)

Discusses the history, purposes, and regulations of the advertising industry. Topics covered include creative principles, media advantages and disadvantages, media planning, regulation of advertising, and coordination with other promotion activities.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 385 - Sports Marketing

3 Credit(s)

Illustrates the dynamic, progressive and influential nature of sports marketing. Explores the sport marketing concept as a consumer-driven, integrated, goal-oriented philosophy for a team, event, organization or athlete. Topics covered include: athletic endorsements, team sports, event sponsorships and alternative sports.

BUS 448 - Interactive/Social Media Marketing

3 Credit(s)

This course focuses on relationship marketing, interactive marketing, integration of consumer data, Internet marketing (E-commerce), media advertising, catalogs, mailing lists, telemarketing, and the use of direct marketing techniques to replace or enhance the traditional marketing methods of retail and direct sales.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 449 - Marketing in the 21st Century

3 Credit(s)

This course provides the practical tools and strategies required to successfully leverage social networks, capitalize on

their powerful word-of-mouth lift, and how to measure these interactive marketing efforts. These tools will be used on an actual social media marketing campaign for a business or non-profit entity. Current and future marketing tools will be discussed and evaluated.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T
AND

BUS 448 Minimum Grade: C- OR T

Plus Additional Secondary Education Licensure Requirements from the School of Education

Bachelor of Arts, Secondary Education Licensure

Bachelor of Arts in Business Administration, Digital Marketing Emphasis

Go to: Business

Specific courses required for this degree:

Digital Marketing Courses

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

AR 310 - Photoshop

3 Credit(s)

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

AR 401 - Advanced Graphic Design**3 Credit(s)**

An advanced study of the design relating to the work of the graphic designer. Students learn PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 306 Minimum Grade: C- OR T
AND

AR 310 Minimum Grade: C- OR T

BUS 265 - Business Communications**3 Credit(s)**

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing**3 Credit(s)**

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 315 - Sales and Sales Management**3 Credit(s)**

This course is designed to introduce students to management techniques as they relate specifically to the marketing and sales area. Topics covered include: the selling process, compensation systems, motivation and leadership, time and territory management, sales forecasting, quotas, and evaluating the sales force.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 335 - Consumer Behavior

3 Credit(s)

Study of consumer behavior as it relates to the marketing functions. Emphasis on the models of consumer behavior and their application to practical marketing problems.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 345 - Advertising

3 Credit(s)

Discusses the history, purposes, and regulations of the advertising industry. Topics covered include creative principles, media advantages and disadvantages, media planning, regulation of advertising, and coordination with other promotion activities.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and

controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 448 - Interactive/Social Media Marketing

3 Credit(s)

This course focuses on relationship marketing, interactive marketing, integration of consumer data, Internet marketing (E-commerce), media advertising, catalogs, mailing lists, telemarketing, and the use of direct marketing techniques to replace or enhance the traditional marketing methods of retail and direct sales.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 454 - Market Research & Information

3 Credit(s)

Study of the theory and methods used in marketing research to address marketing problems. May include the completion of a research project where students learn by performing a research project from problem formulation to writing a research report. Also prepares the students for evaluating research performed by others.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 460 - Marketing Management

3 Credit(s)

Twelve hours of marketing courses and senior status required. Capstone course in marketing. Study of the problems faced by marketing managers as they make decisions and develop policies.

Prerequisite(s):

BUS 454 Minimum Grade: C- OR T

BUS 467 - Creativity and Innovation

3 Credit(s)

Course objectives are to develop skills in generating new and original ideas, increase ability to convert ideas into action and success, and increase knowledge and skill in creative problem solving as applied to business scenarios.

Prerequisite(s):

BUS 361 Minimum Grade: C-

COMM 230 - Media Writing

3 Credit(s)

Students will survey the fundamental types of media writing, including inverted pyramid news writing, feature writing, blogging, and screenplays. News literacy will also be covered.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

COMM 280 - Visual Literacy

3 Credit(s)

This course will decode the messages behind visual communication by covering concepts of photography, television, film, digital imagery, social media, video games, etc. Students will interrogate visual meaning, and even create visual messages using standard industry practices.

Prerequisite(s):

ENG 102 Minimum Grade: C-

COMM 285 - Digital Media Production

3 Credit(s)

Teaches skills needed to produce effective digital media in print, audio, and video formats. Students are encouraged to take this course concurrently with newspaper, radio, and/or video practicum.

COMM 293 - Media Practicum

3 Credit(s)

Students will work hands-on to learn various media industry-related skills. Students will deejay for Grizz Sound, and/or create podcasts, write for The Paw Print, and create a short video piece.

Prerequisite(s):

COMM 230 Minimum Grade: C- OR T

Plus 9 Hours from the Following

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time

based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 301 - Typography

3 Credit(s)

This course is intended primarily for art majors who chose graphic design as their area of emphasis. It is also open to any other art major or non-art major. This course will focus on a broad study of typography, its terminology, history, and application in the field of graphic design.

Prerequisite(s):

AR 206 Minimum Grade: C- OR T

AR 312 - Design for the Internet

3 Credit(s)

This course will provide an introduction to theories and practical experience with graphic design as applied to the Internet. Students will study the basics in web page and web site design using current industry standard software, HTML and XHTML. Within the course, students will create web pages and sites suitable for course work, professional purposes, and personal use. Students will also explore common web page formats and functions. Emphasis will be on the aesthetics of Internet design.

AR 381 - Intermediate Digital Photography

3 Credit(s)

Continued exploration of digital photography as an art medium. The course will delve further into photographic applications in Adobe Photoshop with emphasis on maximizing image quality using masks and blending modes. Introduction to fine art printing and papers. Emphasis on concept and creative expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 281 Minimum Grade: C- OR T

AR 484 - Advanced Photography I

3 Credit(s)

Continued exploration of photography as an art medium with emphasis on expression and technique. Emphasis on development of a personal style and approach to the medium. Students will work with the instructor to determine techniques appropriate for their individual goals. Digital Techniques will be emphasized during the spring semester and traditional techniques in the fall semester. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 380 Minimum Grade: C- OR T
OR

AR 381 Minimum Grade: C- OR T

OR

AR 485 - Advanced Photography II

3 Credit(s)

Continued exploration of photography as an art medium with emphasis on expression and technique. Emphasis on development of a personal style and approach to the medium. Students will work with the instructor to determine techniques appropriate for their individual goals. Digital Techniques will be emphasized during the spring semester and traditional techniques in the fall semester. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 484 Minimum Grade: C- OR T

BUS 381 - Business Internship

1 to 3 Credit(s)

Junior standing and approval of the department chair required. The internships are planned, meaningful work experiences that are academic in nature. Supervision consists of a site supervisor who is a qualified professional in the business or organization where the internship is arranged and a faculty sponsor who is a full-time professor in the School of Business, usually from the student's major. The site supervisor evaluates the work performed by the student on the job. The faculty sponsor is responsible for maintenance of academic quality and assigns the course grade. (30 contact hours=1 credit hour)

OR

BUS 481 - Business Internship II

1 to 3 Credit(s)

Senior standing and approval of the Department Chair required. The internships are planned, meaningful work experiences that are academic in nature. Supervision consists of a site supervisor who is a qualified professional in the business or organization where the internship is arranged and a faculty sponsor who is a full-time professor in the School of Business, usually from the student's major. The site supervisor evaluates the work performed by the student on the job. The faculty sponsor is responsible for maintenance of academic quality and assigns the course grade (30 contact hours=1 credit hour).

BUS 466 - Business Ethics Decision Making

3 Credit(s)

This course explores various ethical issues facing business leaders in modern society. Students will utilize current issues to analyze ethical dilemmas and decision-making processes common to modern organizations. Emphasizes critical thinking, critical reading, and the importance of professional ethics.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated

understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

COMM 345 - Business of Radio and TV

3 Credit(s)

This course is designed for majors of Communication & Media, Media Industry & Communication, Public Relations, and other majors who are interested in careers in the radio and television industries. Students will study in-depth as to how the radio and television industries operate.

COMM 355 - Public Relations and Strategic Communication

3 Credit(s)

Students will study the theoretical and practical elements of the field of public relations and the use of strategic communication. Student will then compose public relations materials applying the elements studied.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

COMM 365 - Digital Filmmaking

3 Credit(s)

This course covers the aesthetics and practice of narrative, documentary, and experimental media production using a variety of digital filmmaking tools including digital photography, digital video, audio recorders, and editing software. Students will complete video products they can post to YouTube and similar sites.

Prerequisite(s):

COMM 230 Minimum Grade: C- OR T

Total: 66 Credit Hours

Bachelor of Arts in Business Administration, General Business Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Bachelor of Arts in Business Administration, International Business Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

International Business Emphasis

BUS 335 - Consumer Behavior

3 Credit(s)

Study of consumer behavior as it relates to the marketing functions. Emphasis on the models of consumer behavior and their application to practical marketing problems.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 373 - Investment Analysis

3 Credit(s)

BUS 318 recommended. The course is a study of personal investment planning, traditional and alternative investment vehicles, investment media, investment strategy, and portfolio analysis. The student will become familiar with both money market and capital investment markets as well as strategies for assessing returns and risks of various security instruments.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T
AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

BUS 383 - International Financial Management

3 Credit(s)

A comprehensive study of international financial markets that covers currency exchange mechanisms in theory and practice. In line with the rapid globalization of the economy, the goal of this course is to analyze the international financial environment and how managers function in this increasingly uncertain global environment. The course will focus on three main areas of international finance: international financial environment, exchange rate behavior, and exchange risk management.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 441 - International Marketing

3 Credit(s)

Analysis of opportunities, distinctive characteristics, and emerging trends in foreign markets, including exploration of alternative methods and strategies for entering foreign markets; organizational planning and control; impact of social, cultural, economic, and political differences; and problems of adapting American marketing concepts and methods. This is accomplished through real life planning and implementation of an international marketing plan designed to market a product or service in a foreign country or countries

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 498 - World Food Distribution/Agricultural Economics

3 Credit(s)

Knowledge and application of economic concepts to the sectors of agriculture including microeconomic and macroeconomic relationships, world markets, and trade.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Plus 9 Credits from Political Science, History, or Languages (in Consultation with Your Advisor)

Bachelor of Arts in Business Administration, Public Relations Emphasis

Go to: Business

Public Relations Courses

SPCH 100 - Speech Fundamentals

3 Credit(s)

A course designed to develop proficiency in oral communication: interpersonal, group, and public discourse.

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

COMM 230 - Media Writing

3 Credit(s)

Students will survey the fundamental types of media writing, including inverted pyramid news writing, feature writing, blogging, and screenplays. News literacy will also be covered.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

COMM 293 - Media Practicum

3 Credit(s)

Students will work hands-on to learn various media industry-related skills. Students will deejay for Grizz Sound, and/or create podcasts, write for The Paw Print, and create a short video piece.

Prerequisite(s):

COMM 230 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 315 - Sales and Sales Management

3 Credit(s)

This course is designed to introduce students to management techniques as they relate specifically to the marketing and sales area. Topics covered include: the selling process, compensation systems, motivation and leadership, time and territory management, sales forecasting, quotas, and evaluating the sales force.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 345 - Advertising

3 Credit(s)

Discusses the history, purposes, and regulations of the advertising industry. Topics covered include creative principles, media advantages and disadvantages, media planning, regulation of advertising, and coordination with other promotion activities.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

COMM 355 - Public Relations and Strategic Communication

3 Credit(s)

Students will study the theoretical and practical elements of the field of public relations and the use of strategic communication. Student will then compose public relations materials applying the elements studied.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

COMM 425 - Media Research Methods

3 Credit(s)

Students will examine the prominent methods of media research, including quantitative and qualitative research, reliability and validity, specific methods used in the industry, the Nielsen ratings, and market trends.

Prerequisite(s):

ENG 102 Minimum Grade: C-

BUS 448 - Interactive/Social Media Marketing

3 Credit(s)

This course focuses on relationship marketing, interactive marketing, integration of consumer data, Internet marketing (E-commerce), media advertising, catalogs, mailing lists, telemarketing, and the use of direct marketing techniques to replace or enhance the traditional marketing methods of retail and direct sales.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 466 - Business Ethics Decision Making

3 Credit(s)

This course explores various ethical issues facing business leaders in modern society. Students will utilize current issues to analyze ethical dilemmas and decision-making processes common to modern organizations. Emphasizes critical thinking, critical reading, and the importance of professional ethics.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 467 - Creativity and Innovation

3 Credit(s)

Course objectives are to develop skills in generating new and original ideas, increase ability to convert ideas into action and success, and increase knowledge and skill in creative problem solving as applied to business scenarios.

Prerequisite(s):

BUS 361 Minimum Grade: C-

COMM 495 - Communication Capstone

3 Credit(s)

This course is designed to be the academic capstone experience for all students who are majoring in Communication & Media or Public Relations and to prepare students for a career in the media industry and/or for graduate studies in the field. Subject matter will vary depending upon the instructor's specialization or area of interest. All capstone students will conduct a major research project that reflects the student's mastery of library usage, research methodology, breadth of knowledge, critical thinking, and writing ability.

COMM 345 - Business of Radio and TV

3 Credit(s)

This course is designed for majors of Communication & Media, Media Industry & Communication, Public Relations, and other majors who are interested in careers in the radio and television industries. Students will study in-depth as to how the radio and television industries operate.

Plus 3 Credits from Business or Communication

COMM 280 - Visual Literacy

3 Credit(s)

This course will decode the messages behind visual communication by covering concepts of photography, television, film, digital imagery, social media, video games, etc. Students will interrogate visual meaning, and even create visual messages using standard industry practices.

Prerequisite(s):

ENG 102 Minimum Grade: C-

COMM 293 - Media Practicum

3 Credit(s)

Students will work hands-on to learn various media industry-related skills. Students will deejay for Grizz Sound, and/or create podcasts, write for The Paw Print, and create a short video piece.

Prerequisite(s):

COMM 230 Minimum Grade: C- OR T

BUS 381 - Business Internship

1 to 3 Credit(s)

Junior standing and approval of the department chair required. The internships are planned, meaningful work experiences that are academic in nature. Supervision consists of a site supervisor who is a qualified professional in the business or organization where the internship is arranged and a faculty sponsor who is a full-time professor in the School of Business, usually from the student's major. The site supervisor evaluates the work performed by the student on the job. The faculty sponsor is responsible for maintenance of academic quality and assigns the course grade. (30 contact hours=1 credit hour)

OR

BUS 481 - Business Internship II

1 to 3 Credit(s)

Senior standing and approval of the Department Chair required. The internships are planned, meaningful work experiences that are academic in nature. Supervision consists of a site supervisor who is a qualified professional in the business or organization where the internship is arranged and a faculty sponsor who is a full-time professor in the School of Business, usually from the student's major. The site supervisor evaluates the work performed by the student

on the job. The faculty sponsor is responsible for maintenance of academic quality and assigns the course grade (30 contact hours=1 credit hour).

COMM 430 - Diversity in Media

3 Credit(s)

Students will analyze how US media represents traditionally marginalized people in the United States. The course will be primarily discussion based, with students and instructor working together to generate ideas and critique dominant ideologies.

Prerequisite(s):

COMM 350 Minimum Grade: C- OR T

COMM 457 - First Amendment and Copyright

3 Credit(s)

This course explores the First Amendment of the U.S. Constitution and current U.S. copyright laws, and how they apply to and affect both media practitioners and U.S. citizens.

Prerequisite(s):

COMM 255 Minimum Grade: C- OR T

AND

COMM 275 Minimum Grade: C- OR T

COMM 496 - Communication Internship

1 to 3 Credit(s)

Advanced communication students will work in a pre-employment capacity in the field of communications/journalism (broadcasting, video, print, satellite, or computing), applying learned skills in a working environment.

Bachelor of Arts in Chemistry

Go to: Chemistry

Specific courses required for this degree:

Completion of the following required courses

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

CHEM 321 - Organic Chemistry

4 Credit(s)

A study of the relationship between structure and reactivity of carbon-containing compounds.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 321L

CHEM 321L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 321. Laboratory time will be divided among techniques, preparation, and mechanistic studies.

Co-requisite(s): CHEM 321

CHEM 322 - Organic Chemistry

4 Credit(s)

A continuation of CHEM 321.

Prerequisite(s):

CHEM 321 Minimum Grade: C- OR T

Co-requisite(s): CHEM 322L

CHEM 322L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-322. Laboratory time will be divided among mechanistic studies, preparation, introductory qualitative analysis, and independent project work.

Co-requisite(s): CHEM-322

CHEM 331 - Analytical Chemistry

3 Credit(s)

The theory and application of classical and instrumental quantitative analysis with additional emphasis on the fate and

analysis of chemicals in the environment.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T
AND

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): CHEM 331L

CHEM 331L - Analytical Chemistry Lab

2 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-331

Co-requisite(s): CHEM-331

CHEM 332 - Analytical Chemistry

3 Credit(s)

A continuation of CHEM 331 with additional coverage of chemical equilibria and electrochemistry.

Prerequisite(s):

CHEM 331 Minimum Grade: D OR T

Co-requisite(s): CHEM 332L

CHEM 332L - Analytical Chemistry Lab

2 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 332.

Co-requisite(s): CHEM 332

CHEM 431 - Physical Chemistry Lecture/Thermodynamics

3 Credit(s)

Thermodynamics as applied to chemistry and physics. Specific topics include the laws of thermodynamics, thermochemistry, reaction and phase equilibrium, solutions, and electrochemistry. An introduction to chemical kinetics is included.

Prerequisite(s):

CHEM-132 Minimum Grade: C- OR T
AND

MATH-121 Minimum Grade: C- OR T

AND

PHYS-225 Minimum Grade: C- OR T

AND

PHYS-226 Minimum Grade: C- OR T

OR

PHYS-230 Minimum Grade: D OR T

AND

PHYS-231 Minimum Grade: D OR T

AND

PHYS-232 Minimum Grade: D OR T

AND

PHYS-233 Minimum Grade: D OR T

Co-requisite(s): CHEM 433

CHEM 432 - Physical Chemistry Lecture/Quantum Mechanics

3 Credit(s)

Quantum mechanics with applications to atomic structure, bonding, solid state, and spectroscopy. An introduction to kinetic molecular theory of gas, transport properties, and statistical mechanics is included.

Prerequisite(s):

CHEM-132 Minimum Grade: C- OR T
AND

MATH-121 Minimum Grade: C- OR T

AND

PHYS-225 Minimum Grade: C- OR T

AND

PHYS-226 Minimum Grade: C- OR T

OR

PHYS-230 Minimum Grade: D OR T

AND

PHYS-231 Minimum Grade: D OR T

AND

PHYS-232 Minimum Grade: D OR T

AND

PHYS-233 Minimum Grade: D OR T

CHEM 433 - Physical Chemistry Laboratory

2 Credit(s)

The principles of physical chemistry applied in the laboratory.

Prerequisite(s):

CHEM 431 Minimum Grade: D OR T

Co-requisite(s): CHEM 431

CHEM 434 - Physical Chemistry Laboratory

2 Credit(s)

The principles of physical chemistry applied in the laboratory. CHEM-434 includes an independent project.

Prerequisite(s):

CHEM 431 Minimum Grade: D OR T

Co-requisite(s): CHEM 432

CHEM 471 - Chemistry Seminar

1 Credit(s)

Capstone course intended for senior chemistry majors consisting of seminars presented by guest speakers, staff, and students; an assessment exam for seniors; and job placement information. Prerequisite: Completion of sufficient degree requirements to be within three semesters of graduating with a chemistry major.

CHEM 472 - Chemistry Seminar Continuation

1 Credit(s)

A continuation of CHEM 471.

Prerequisite(s):

CHEM 471 Minimum Grade: C- OR T

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1**5 Credit(s)**

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

The following physics sequence

PHYS 225 - College Physics I GT-SC1**5 Credit(s)**

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 226 - College Physics II

5 Credit(s)

The second course of a two-semester lecture-laboratory sequence introducing the fundamental principles of physics. In the second semester, students will be introduced to the areas of electricity, electric circuits, optics, and topics in modern physics. Conceptual understanding as well as problem-solving techniques will be emphasized in the lecture. The laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture.

Prerequisite(s):

PHYS 225 Minimum Grade: C- OR T

OR

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T

AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

The following course combination is recommended

CHEM 334 - Environmental Chemistry

3 Credit(s)

This course is designed to introduce the student to a series of topics including stratospheric chemistry, air pollution, global warming, climate change, renewable energy, pesticides, water pollution, and heavy metal pollution.

Prerequisite(s):

CHEM 331 Minimum Grade: C- OR T

Co-requisite(s): CHEM 334L

CHEM 334L - Environmental Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 334.

Co-requisite(s): CHEM 334

Bachelor of Arts in Chemistry, Allied Health Professions Emphasis

Go to: Chemistry

This degree is not appropriate for those planning a career in chemistry but is intended for students entering professional school in the health professions.

Specific courses required for this degree:

Completion of the Following Required Courses

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

CHEM 321 - Organic Chemistry

4 Credit(s)

A study of the relationship between structure and reactivity of carbon-containing compounds.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 321L

CHEM 321L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 321. Laboratory time will be divided among techniques, preparation, and mechanistic studies.

Co-requisite(s): CHEM 321

CHEM 322 - Organic Chemistry

4 Credit(s)

A continuation of CHEM 321.

Prerequisite(s):

CHEM 321 Minimum Grade: C- OR T

Co-requisite(s): CHEM 322L

CHEM 322L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-322. Laboratory time will be divided among mechanistic studies, preparation, introductory qualitative analysis, and independent project work.

Co-requisite(s): CHEM-322

CHEM 331 - Analytical Chemistry

3 Credit(s)

The theory and application of classical and instrumental quantitative analysis with additional emphasis on the fate and analysis of chemicals in the environment.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T
AND

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): CHEM 331L

CHEM 331L - Analytical Chemistry Lab

2 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-331

Co-requisite(s): CHEM-331

CHEM 332 - Analytical Chemistry

3 Credit(s)

A continuation of CHEM 331 with additional coverage of chemical equilibria and electrochemistry.

Prerequisite(s):

CHEM 331 Minimum Grade: D OR T

Co-requisite(s): CHEM 332L

CHEM 332L - Analytical Chemistry Lab

2 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 332.

Co-requisite(s): CHEM 332

CHEM 401 - Biochemistry

3 Credit(s)

A study of structural biochemistry. Course begins with a review of water, the lipophilic environment, noncovalent bonding, and bioenergetics. Topics include amino acids, peptides, proteins, nucleic acids, carbohydrates, and lipids. Enzymes are discussed with emphasis on mechanism and kinetics.

Prerequisite(s):

CHEM 322 Minimum Grade: C- OR T

Co-requisite(s): CHEM 401L

CHEM 401L - Biochemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-401. Laboratory time will be spent learning protein purification techniques and doing independent project work.

Co-requisite(s): CHEM-401

CHEM 402 - Biochemistry II

3 Credit(s)

A study of biochemical metabolism. Topics include catabolism, anabolism, and metabolic control. Three hours of lecture per week.

Prerequisite(s):

CHEM 401 Minimum Grade: C- OR T

CHEM 471 - Chemistry Seminar

1 Credit(s)

Capstone course intended for senior chemistry majors consisting of seminars presented by guest speakers, staff, and students; an assessment exam for seniors; and job placement information. Prerequisite: Completion of sufficient degree requirements to be within three semesters of graduating with a chemistry major.

CHEM 472 - Chemistry Seminar Continuation

1 Credit(s)

A continuation of CHEM 471.

Prerequisite(s):

CHEM 471 Minimum Grade: C- OR T

Either of the Following Mathematics Sequences

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T
OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T
OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

OR

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

The Following Physics Sequence

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-

OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 226 - College Physics II

5 Credit(s)

The second course of a two-semester lecture-laboratory sequence introducing the fundamental principles of physics. In the second semester, students will be introduced to the areas of electricity, electric circuits, optics, and topics in modern physics. Conceptual understanding as well as problem-solving techniques will be emphasized in the lecture. The laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture.

Prerequisite(s):

PHYS 225 Minimum Grade: C- OR T

OR

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1**1 Credit(s)**

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

Note

A minor in biology is required.

**Bachelor of Arts in Chemistry, Science Education Emphasis
with Secondary Teacher Licensure**

Go to: Bachelor of Arts, Secondary Education Licensure

Go to: Chemistry

The secondary teacher licensure program qualifies a student for a Colorado standard teaching license in science education.

1. Complete the Following Required Courses**BIOL 101 - Introductory Biology GT-SC1****4 Credit(s)**

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups,

and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

CHEM 321 - Organic Chemistry

4 Credit(s)

A study of the relationship between structure and reactivity of carbon-containing compounds.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 321L

CHEM 321L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 321. Laboratory time will be divided among techniques, preparation, and mechanistic studies.

Co-requisite(s): CHEM 321

CHEM 322 - Organic Chemistry

4 Credit(s)

A continuation of CHEM 321.

Prerequisite(s):

CHEM 321 Minimum Grade: C- OR T

Co-requisite(s): CHEM 322L

CHEM 322L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-322. Laboratory time will be divided among mechanistic studies, preparation, introductory qualitative analysis, and independent project work.

Co-requisite(s): CHEM-322

CHEM 331 - Analytical Chemistry

3 Credit(s)

The theory and application of classical and instrumental quantitative analysis with additional emphasis on the fate and analysis of chemicals in the environment.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

AND

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): CHEM 331L

CHEM 331L - Analytical Chemistry Lab

2 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-331

Co-requisite(s): CHEM-331

CHEM 334 - Environmental Chemistry

3 Credit(s)

This course is designed to introduce the student to a series of topics including stratospheric chemistry, air pollution, global warming, climate change, renewable energy, pesticides, water pollution, and heavy metal pollution.

Prerequisite(s):

CHEM 331 Minimum Grade: C- OR T

Co-requisite(s): CHEM 334L

CHEM 334L - Environmental Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 334.

Co-requisite(s): CHEM 334

CHEM 471 - Chemistry Seminar

1 Credit(s)

Capstone course intended for senior chemistry majors consisting of seminars presented by guest speakers, staff, and students; an assessment exam for seniors; and job placement information. Prerequisite: Completion of sufficient degree requirements to be within three semesters of graduating with a chemistry major.

CHEM 472 - Chemistry Seminar Continuation

1 Credit(s)

A continuation of CHEM 471.

Prerequisite(s):

CHEM 471 Minimum Grade: C- OR T

Complete either physics sequence (each one is a year in length)

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 226 - College Physics II

5 Credit(s)

The second course of a two-semester lecture-laboratory sequence introducing the fundamental principles of physics. In the second semester, students will be introduced to the areas of electricity, electric circuits, optics, and topics in modern physics. Conceptual understanding as well as problem-solving techniques will be emphasized in the lecture. The laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture.

Prerequisite(s):

PHYS 225 Minimum Grade: C- OR T
OR

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

The following courses are highly recommended

CHEM 332 - Analytical Chemistry

3 Credit(s)

A continuation of CHEM 331 with additional coverage of chemical equilibria and electrochemistry.

Prerequisite(s):

CHEM 331 Minimum Grade: D OR T

Co-requisite(s): CHEM 332L

CHEM 332L - Analytical Chemistry Lab

2 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 332.

Co-requisite(s): CHEM 332

CHEM 461 - Inorganic Chemistry

3 Credit(s)

Theoretical aspects of inorganic chemistry based upon periodic relationships, symmetry, structure bonding, and reactivities. Offered fall semesters of odd-numbered years.

Prerequisite(s):

CHEM-321 Minimum Grade: C- OR T
AND

CHEM-322 Minimum Grade: C- OR T

OR

CHEM-331 Minimum Grade: C- OR T

AND

CHEM-332 Minimum Grade: C- OR T

Co-requisite(s): CHEM-461L

CHEM 461L - Inorganic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-461. Practices of inorganic chemistry in the laboratory including synthesis and characterization of compounds.

Co-requisite(s): CHEM-461

CHEM 431 - Physical Chemistry Lecture/Thermodynamics

3 Credit(s)

Thermodynamics as applied to chemistry and physics. Specific topics include the laws of thermodynamics, thermochemistry, reaction and phase equilibrium, solutions, and electrochemistry. An introduction to chemical kinetics is included.

Prerequisite(s):

CHEM-132 Minimum Grade: C- OR T
AND

MATH-121 Minimum Grade: C- OR T

AND

PHYS-225 Minimum Grade: C- OR T

AND

PHYS-226 Minimum Grade: C- OR T

OR

PHYS-230 Minimum Grade: D OR T

AND

PHYS-231 Minimum Grade: D OR T

AND

PHYS-232 Minimum Grade: D OR T

AND

PHYS-233 Minimum Grade: D OR T

Co-requisite(s): CHEM 433

2. Complete the secondary teacher licensure requirements

Bachelor of Arts, Secondary Education Licensure

Bachelor of Arts in Communication and Media Studies

Go to: Languages, Literature, and Media Communication

The Communication and Media Studies major encourages you to apply reading, writing and critical thinking skills within a multimedia environment. Through coursework, student media groups, and hands-on projects, you'll examine and appraise different media, including written, studio, and video materials. You'll have access to broadcasting equipment and video-editing software and equipment, as well as opportunities to work for the The Paw Print student newspaper, student streaming radio and more.

Upon graduation, you'll demonstrate competence in a variety of media forms and techniques. The skills and knowledge you gain at Adams State will prepare you for many career paths, broadcasting, video production, social media, graduate school, and a variety of other communication-oriented careers.

Specific Courses Required for This Degree

SPCH 100 - Speech Fundamentals

3 Credit(s)

A course designed to develop proficiency in oral communication: interpersonal, group, and public discourse.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

COMM 230 - Media Writing

3 Credit(s)

Students will survey the fundamental types of media writing, including inverted pyramid news writing, feature writing, blogging, and screenplays. News literacy will also be covered.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

COMM 280 - Visual Literacy

3 Credit(s)

This course will decode the messages behind visual communication by covering concepts of photography, television, film, digital imagery, social media, video games, etc. Students will interrogate visual meaning, and even create visual messages using standard industry practices.

Prerequisite(s):

ENG 102 Minimum Grade: C-

COMM 293 - Media Practicum

3 Credit(s)

Students will work hands-on to learn various media industry-related skills. Students will deejay for Grizz Sound, and/or create podcasts, write for The Paw Print, and create a short video piece.

Prerequisite(s):

COMM 230 Minimum Grade: C- OR T

COMM 345 - Business of Radio and TV

3 Credit(s)

This course is designed for majors of Communication & Media, Media Industry & Communication, Public Relations,

and other majors who are interested in careers in the radio and television industries. Students will study in-depth as to how the radio and television industries operate.

COMM 350 - Media Theory and Criticism

3 Credit(s)

Students will explore various theories that explain the nature of mass communication, the impact that media have on society, and the trends in media consumption. Particular emphasis will be placed on propaganda, violence in media, information processing, media monopolies, and critical media consumption. Students will be expected to track current media and debate contemporary media controversies in class.

Prerequisite(s):

COMM 255 Minimum Grade: C- OR T

COMM 355 - Public Relations and Strategic Communication

3 Credit(s)

Students will study the theoretical and practical elements of the field of public relations and the use of strategic communication. Student will then compose public relations materials applying the elements studied.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

COMM 425 - Media Research Methods

3 Credit(s)

Students will examine the prominent methods of media research, including quantitative and qualitative research, reliability and validity, specific methods used in the industry, the Nielsen ratings, and market trends.

Prerequisite(s):

ENG 102 Minimum Grade: C-

COMM 430 - Diversity in Media

3 Credit(s)

Students will analyze how US media represents traditionally marginalized people in the United States. The course will be primarily discussion based, with students and instructor working together to generate ideas and critique dominant ideologies.

Prerequisite(s):

COMM 350 Minimum Grade: C- OR T

COMM 457 - First Amendment and Copyright

3 Credit(s)

This course explores the First Amendment of the U.S. Constitution and current U.S. copyright laws, and how they

apply to and affect both media practitioners and U.S. citizens.

Prerequisite(s):

COMM 255 Minimum Grade: C- OR T
AND

COMM 275 Minimum Grade: C- OR T

BUS 448 - Interactive/Social Media Marketing

3 Credit(s)

This course focuses on relationship marketing, interactive marketing, integration of consumer data, Internet marketing (E-commerce), media advertising, catalogs, mailing lists, telemarketing, and the use of direct marketing techniques to replace or enhance the traditional marketing methods of retail and direct sales.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

COMM 495 - Communication Capstone

3 Credit(s)

This course is designed to be the academic capstone experience for all students who are majoring in Communication & Media or Public Relations and to prepare students for a career in the media industry and/or for graduate studies in the field. Subject matter will vary depending upon the instructor's specialization or area of interest. All capstone students will conduct a major research project that reflects the student's mastery of library usage, research methodology, breadth of knowledge, critical thinking, and writing ability.

Choose Two of the Following (6 Credit Hours)

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 310 - Photoshop

3 Credit(s)

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 345 - Advertising

3 Credit(s)

Discusses the history, purposes, and regulations of the advertising industry. Topics covered include creative principles, media advantages and disadvantages, media planning, regulation of advertising, and coordination with other promotion activities.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 385 - Sports Marketing

3 Credit(s)

Illustrates the dynamic, progressive and influential nature of sports marketing. Explores the sport marketing concept as a consumer-driven, integrated, goal-oriented philosophy for a team, event, organization or athlete. Topics covered include: athletic endorsements, team sports, event sponsorships and alternative sports.

BUS 468 - New Business Venturing

3 Credit(s)

This course introduces students to starting and operating a business. Students will be exposed to how business interacts with government, financial institutions, and society. This course will examine and study the process, challenges, risks, and rewards of starting up a new business. The student will be equipped with tools required to start their own business.

Prerequisite(s):

BUS 365 Minimum Grade: C-

COMM 379 - Special Topics**1 to 6 Credit(s)**

Offered periodically to meet student interests in the field.

COMM 496 - Communication Internship**1 to 3 Credit(s)**

Advanced communication students will work in a pre-employment capacity in the field of communications/journalism (broadcasting, video, print, satellite, or computing), applying learned skills in a working environment.

Note

*May require prerequisite

A minor in an area of specialization is recommended.

Bachelor of Arts in Elementary Education

Go to: Educational Preparation

Students preparing to be elementary teachers will complete an undergraduate Bachelor of Arts degree in Elementary Education with coursework and field experience in literacy and language, content methods, and education practices within their chosen major.

Choose Your Emphasis and Complete Those Requirements

Select an approved content area emphasis with your advisor:

- Bachelor of Arts in Elementary Education Licensure, Art Emphasis
- Bachelor of Arts in Elementary Education Licensure, Chemistry Minor
- Bachelor of Arts in Elementary Education Licensure, Culturally and Linguistically Diverse Education (CLD) Emphasis
- Bachelor of Arts in Elementary Education Licensure, Literacy Emphasis
- Bachelor of Arts in Elementary Education Licensure, Mathematics Emphasis
- Bachelor of Arts in Elementary Education Licensure, Music Emphasis
- Bachelor of Arts in Elementary Education Licensure, Science Emphasis
- Bachelor of Arts in Elementary Education Licensure, Social Studies Emphasis
- Bachelor of Arts in Elementary Education Licensure, Spanish Emphasis

Complete the Licensure Requirements

ED 200 - Perspectives of Teaching and Learning

3 Credit(s)

A study of school, societal and cultural issues and their influences on teaching and learning. As an introductory course, the purpose is to learn about teaching as a career choice, the historical development of American education, social and political structures in the schools, and power groups influencing educational policy. Issues of educational reform will include civil rights, students' rights, ethnic, gender and racial issues, individualizing instructions, special education, learning theory models, (inclusive of diversity issues related to electronic media) and alternative school structures. Emphasis is placed on the orientation and development of a proficient and reflective professional educator. A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

PSYC 204 - Child Development

3 Credit(s)

The goal of this course is to examine the interaction of heredity and environment on human development from conception through pre-adolescence. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Some topics include the birth process, early cognitive and language development, gender socialization, the impact of parenting styles, and moral reasoning.

Prerequisite(s):

PSYC 101 Minimum Grade: C or T

ED 220 - The Exceptional Learner

3 Credit(s)

This course is designed to survey the foundations of special education, including historical, philosophical perspectives, legal issues and current trends in instruction and programming. Students will explore the role of general education as it relates to the education of the student with exceptional needs. Emphasis will be placed on developing knowledge of various disabling conditions, available resources and educational alternatives. Students will learn about the ethical and sociopolitical influences on prevention, intervention and educational programs for students with special needs, from birth through post-secondary ages. Learning characteristics and the diverse needs of students who receive special education services will also be studied. From a pedagogically sound, as well as developmentally appropriate perspective, the similarities and differences within and between exceptionalities and typical development will be emphasized. A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office PRIOR to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

ED 230 - Science of Reading

3 Credit(s)

This foundational course in reading explores literacy development and the structure of language by a) defining the relationship between cognitive and linguistic development, b) assessing literacy development, c) nurturing the development of emergent literacy, and d) investigating and planning instruction for the five components of reading which include phonemic awareness, phonics, fluency, vocabulary, and comprehension.

NOTE:

- A 20-hour, pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field-experience. Photo IDs must be obtained PRIOR to the beginning of the field-experience component.
- Field-experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

ED 300 - The Reading and Writing Connection

3 Credit(s)

This course delves into the art of effective teaching methods in the realms of reading and writing, highlighting the intricate link between these subjects. Furthermore, it addresses the reality that some students encounter difficulties in these areas. The course equips learners with the skills to employ a diverse range of assessments, encompassing both formal and informal approaches, to gauge a student's strengths and areas needing improvement. It will also elucidate the significance of employing various assessment methods and their impact on enhancing instruction and elevating student achievement. This course will involve lecture, discussion, videos in a hybrid, online, or face-to-face model along with practice in the classroom. Students will complete associated hours of supervised field-based experiences to observe and interact directly in educational environments. Field service hours are required for licensure.

Documentation of verified hours will be collected as part of the undergraduate course. Students will be responsible for their own transportation to the field sites.

Note:

- A 20-hour, pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field-experience. Photo IDs must be obtained PRIOR to the beginning of the field-experience component.
- Field-experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to Ed Prep Program and Clear Fingerprint background check

ED 345 - Educational Psychology

3 Credit(s)

Designed to explore the background of educational psychology. Major topic areas include: research, value and utilization, student characteristics and diversity, learning theories and their application, motivation, teaching methods and practices, evaluating student learning, and standardized measurements. Students will develop increased ability to

understand and assess the interrelationships of intellectual, cognitive, instructional, personality, social and cultural influences, theories, and factors as they affect the learning environments. Students will cover assessment procedures, analysis of data, legal and ethical responsibilities as part of necessary research and evaluation within the school learning environment. Emphasis is placed on developing knowledge of historical and current research and its meaning for interaction and planning in the school setting.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

ED 347 - Teaching, Learning, and Technology

3 Credit(s)

This course is an introduction to the theories and applications of appropriate and effective uses of technology to achieve pedagogical goals. Content includes exploring emerging technologies, designing lessons aligned to the Colorado Essential Skills, integrating digital tools to strengthen teaching and improve student learning, identifying guidelines for designing and implementing online learning environments, comparing various theories of teaching and learning related to the design of virtual lessons/online programs, and describing effective instructional strategies for online learning. Using technology in K-12 classrooms is relevant to prepare students for success in post-secondary and workforce settings.

Prerequisite(s):

Clear Fingerprint background check

Choose One Course (3 Credits)

CLD 401 - Introduction to the Study of Language

3 Credit(s)

This course provides prospective teachers with an overview of the study of language and how it works. It is an introduction to the scientific study of language and linguistics. The course provides for examination of relevant theories of language and how language is acquired as well as cognitive, societal and cultural considerations affecting its use. Specific topics to be examined include: the structure of languages, grammatical constructs (e.g., morphology, syntax, semantics, phonetics, phonology, and discourse), the interactions between language use and social structures, and the representation of language in the brain. Instructional applications will be considered. The course presupposes no formal study or knowledge of language/ linguistics.

Prerequisite(s):

Clear Fingerprint background check

CLD 402 - Language and Culture

3 Credit(s)

This course explores the peculiar relationship between language and the cultural total of which the language is a part, including the connection between cultural identity and heritage language. It examines language variations within a community according to gender, age, geography, ethnicity, socioeconomic class and level of education. Specifically, the course deals with the linguistic factors characterizing differences in language and with the social and social-psychological variables associated with these differences. Attention is given to the different varieties of language within a speech community (e.g., dialect, register, and style) and the societal and cultural factors that define their use. Course content considers the educational, political and economic implications. The course presupposes no formal study

or knowledge of language/ linguistics. Accordingly, the course focuses on the different ways people speak. It deals with the linguistic factors characterizing differences in language and with the social and social-psychological variables associated with these differences. Thus, having completed the course, students should (a) be aware of the different linguistic choices available to speakers in different social/ cultural contexts, (b) have an understanding of the factors which influence the choosing of one variety over another and the societal implications of such choices, (c) gain an appreciation for language diversity and cultural pluralism and, for those in teacher education programs, and, for education majors, (d) be able to demonstrate ability to identify and adapt instructional applications that are responsive to learners from different cultural backgrounds.

Prerequisite(s):

Clear Fingerprint background check

CLD 403 - Second Language Acquisition

3 Credit(s)

Introduction to second language acquisition (SLA) theory and the application of SLA theory to second/foreign language teaching practices. Explores what it means to know a language and, hence, how one learns/ acquires a second language. The emphasis in the course is to provide an opportunity to become familiar with up-to-date major theories of language acquisition (e.g., linguistic, psychological, sociological, etc.). That is, what happens in the mind of L1 learners and expand to 2L learners. This is not a methodology course, though certain methods and approaches will be discussed as they are direct applications of 2L theories. Instead, students will be exposed to what research data show about the complex process of learning a second language, and to teach them how to rely on these data to understand a number of major models (theories) of 2LL and, as a result, be able to use this knowledge to evaluate different methods, materials and assessments for 2LL/CLD populations. The course presupposes no formal study or knowledge of language/ linguistics. As part of the course content, we will seek to foster cultural sensitivity to the diverse student population becoming increasingly prevalent in classrooms in the U.S. We will also be concerned with providing the basic skills needed to satisfactorily assess the suitability of diverse 2LL methodologies & programs to meet the needs of limited English proficiency (LEP) students. An underlying assumption of the course is that learning is a social process that takes place within the broader social milieu of the learner's speech community. Accordingly, 2L learners bring into the classroom diverse language and cultural backgrounds, as well as a unique set of competencies, skills, sensitivities, goals, and needs. In order to provide for a successful learning environment, teachers must be able to identify and relate to the diversity inherent in today's student population and be able to take affirmative steps towards addressing the needs of the students in their classrooms. Course content and activities will assist participants in developing a greater appreciation of democracy and diversity in the classroom as we prepare for a global society as reflected in current theories of 2L acquisition.

Prerequisite(s):

Clear Fingerprint background check

CLD 479 - Special Topics

0.5 to 6 Credit(s)

Offered periodically to meet the needs of students.

Prerequisite(s):

Clear Fingerprint background check

Complete the Academic Core

Courses completed to meet any other degree or the Undergraduate General Education Requirements cannot be used to fulfill this requirement

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

GSCI 300 - World Geography

3 Credit(s)

The course examines human or cultural geography with a global perspective. It uses a topic centered approach. It is intended to give the student an appreciation of the interaction between physical geography, environment, and cultural practices.

ED 240 - Math for Elementary Teachers

3 Credit(s)

This course is designed for prospective elementary teachers. Emphasizes the real number system, arithmetic operations, algebra, probability, data analysis, geometry, and measurement. Explorations focus on representing, analyzing, generalizing, formalizing, and communicating patterns and probabilities. Representations of data, two- and three-dimensional shapes, their properties, measurements, and transformations will also be explored. Content presented using problem solving, exploration, and integration with other discipline areas.

Prerequisite(s):

Clear Fingerprint background check

ED 250 - Science for Elementary Teachers

3 Credit(s)

This course will support students developing a better understanding of elementary science concepts and processes. It will focus on the Crosscutting Concepts to help students explore connections across the four domains of science. The class will focus on the disciplinary core Ideas, which are the key ideas in science that have broad importance within or across multiple science or engineering disciplines. The discipline core ideas are grouped into the following four domains: Physical Science, Life Science, Earth and Space Science, and Engineering. Content will be presented using inquiry science and project-based instruction.

Prerequisite(s):

Clear Fingerprint background check

Pass PRAXIS II

Complete the Senior Block (EPP Admission Required)

Courses must be taken concurrently

ED 310 - STEM Methods

3 Credit(s)

This course provides a background on high leverage practices such as: explaining and modeling content, eliciting and interpreting, and diagnosing patterns of student thinking for STEM. The course will also include close examination of the P-6 Colorado Science and Mathematics Content Standards. This background prepares students to develop and implement STEM learning experiences for students at the elementary grade level. Emphasis is on the integration of STEM into the broader curriculum, especially literacy, and to instruction strategies that support success for all students, including linguistically and culturally diverse learners. Topics cover interpreting student work, checking student understanding, designing units, being precise with language in STEM content, and how to use inquiry.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

Co-requisite(s): ED 434L

ED 414 - Inclusive and Safe Classroom Management

3 Credit(s)

This course explores the foundational principles of effective classroom instruction, behavior evaluation, and management techniques while promoting a safe and healthy school environment. This course equips candidates with critical thinking skills to design and implement successful classroom management strategies, emphasizing student achievement through effective time management, communication, and record-keeping procedures. Candidates will also develop comprehensive management plans. Candidates will examine school law and professional ethics for educators. They will gain insights into the legal and ethical frameworks that guide their roles as educators, ensuring they are well-prepared to uphold the highest standards of professionalism and integrity. The content of this course addresses health and wellness topics, including conflict resolution, mediation, nutrition, emergency protocols, and first aid within the educational setting. Candidates will design and implement SEL curricula, considering diverse student needs and crisis prevention and intervention strategies. This course is essential for educators to create a safe, healthy, and inclusive learning environment.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to the Educator Preparation Program; Clear Fingerprint background check

Co-requisite(s): ED 434L

ED 426 - Pedagogical Strategies for Cultural Competence

3 Credit(s)

This is a dynamic and transformative course designed to equip future educators with the essential knowledge and skills to foster cultural competence in the classroom. Students will engage in learning that enhances their ability to use data to better understand and respond to diversity in their respective schools and communities. They will critically examine the impact of cultural values and bias on school curriculum and teacher practice, while applying strategies aimed at creating more culturally responsive experiences for diverse children. Students will also deepen their understanding and practice in working with vulnerable students and families, including those facing abuse, trauma, generational poverty and other forms of crisis.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

Co-requisite(s): ED 434L

ED 434L - Field Experience Lab

3 Credit(s)

Senior Block component. Labs scheduled one day per week, eight hours per day. Students complete field hours as arranged by the Teacher Education office. Reflections and proficiencies demonstrated during this experience meet requirements for evidences related to concurrent (senior block) courses. Supervision is provided by senior block course instructors. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

Student Teaching

ED 435 - Student Teaching - Elementary

1 to 15 Credit(s)

This field experience serves as a culmination of the teacher licensure program and provides student teachers with a comprehensive experience in a public school setting. Students must complete all components outlined in the Student Teaching Handbook. A team of faculty supervisors and mentors will help the student teacher acquire the necessary skills in the practice of building a community of learners while teaching and learning. The community of learners includes the student teacher, the cooperating mentor teacher, the university field supervisor, the building principal, and the classroom students. This student teaching experience requires a minimum of 640 hours of contact time.

Prerequisite(s):

Admission to Ed Prep Program; Permission to Student Teach; Clear Fingerprint background check

Bachelor of Arts in Elementary Education Licensure, Art Emphasis

Go to: Bachelor of Arts in Elementary Education

Go to: Art

Complete Required Art Courses for Art Emphasis

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

AR 334 - Elementary School Art Education Methods

3 Credit(s)

A course designed to explore the theoretical and practical approaches to implementing a program of art education for grades K-6. Emphasis is placed on strategies that will encourage a discipline-based art education model of instruction. Through hands-on involvement in various art media, students are given opportunities for creative problem solving. A background check must be completed through the Department of Teacher Education. This course has a course specific

fee to cover the costs of some materials. A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Teacher Education Background Check Passed
AND

AR 216 Minimum Grade: C OR T

AND

ED 200 Minimum Grade: C OR T

OR

ED 220 Minimum Grade: C OR T

AR 364 - History of Art I

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms prehistoric times to the Eighteenth Century.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T
OR

AR 365 - History of Art II

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms from the 18th Century to the 21st Century. Additionally this course includes a brief survey of the arts of African, Asian, and Native American cultures.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T
OR

AR 367 - Women Artists in Art History

3 Credit(s)

A survey of women artists in the history of art from antiquity to the present.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

Plus Additional Elementary Education Licensure Requirements from the School of Education

Bachelor of Arts in Elementary Education

Bachelor of Arts in Elementary Education Licensure, Chemistry Minor

Go to: Bachelor of Arts in Elementary Education
Go to: Chemistry

Eighteen hours selected in consultation with the coordinator of the program. Either CHEM 111 or CHEM 131 may be selected but not both courses.

Plus Additional Elementary Education Licensure Requirements from the School of Education

Bachelor of Arts in Elementary Education

Bachelor of Arts in Elementary Education Licensure, Culturally and Linguistically Diverse Education (CLD) Emphasis

Go to: Bachelor of Arts in Elementary Education

Required CLD Courses

CLD 401 - Introduction to the Study of Language

3 Credit(s)

This course provides prospective teachers with an overview of the study of language and how it works. It is an introduction to the scientific study of language and linguistics. The course provides for examination of relevant theories of language and how language is acquired as well as cognitive, societal and cultural considerations affecting its use. Specific topics to be examined include: the structure of languages, grammatical constructs (e.g., morphology, syntax, semantics, phonetics, phonology, and discourse), the interactions between language use and social structures, and the representation of language in the brain. Instructional applications will be considered. The course presupposes no formal study or knowledge of language/ linguistics.

Prerequisite(s):

Clear Fingerprint background check

CLD 402 - Language and Culture

3 Credit(s)

This course explores the peculiar relationship between language and the cultural total of which the language is a part, including the connection between cultural identity and heritage language. It examines language variations within a community according to gender, age, geography, ethnicity, socioeconomic class and level of education. Specifically,

the course deals with the linguistic factors characterizing differences in language and with the social and social-psychological variables associated with these differences. Attention is given to the different varieties of language within a speech community (e.g., dialect, register, and style) and the societal and cultural factors that define their use. Course content considers the educational, political and economic implications. The course presupposes no formal study or knowledge of language/ linguistics. Accordingly, the course focuses on the different ways people speak. It deals with the linguistic factors characterizing differences in language and with the social and social-psychological variables associated with these differences. Thus, having completed the course, students should (a) be aware of the different linguistic choices available to speakers in different social/ cultural contexts, (b) have an understanding of the factors which influence the choosing of one variety over another and the societal implications of such choices, (c) gain an appreciation for language diversity and cultural pluralism and, for those in teacher education programs, and, for education majors, (d) be able to demonstrate ability to identify and adapt instructional applications that are responsive to learners from different cultural backgrounds.

Prerequisite(s):

Clear Fingerprint background check

CLD 403 - Second Language Acquisition

3 Credit(s)

Introduction to second language acquisition (SLA) theory and the application of SLA theory to second/foreign language teaching practices. Explores what it means to know a language and, hence, how one learns/ acquires a second language. The emphasis in the course is to provide an opportunity to become familiar with up-to-date major theories of language acquisition (e.g., linguistic, psychological, sociological, etc.). That is, what happens in the mind of L1 learners and expand to 2L learners. This is not a methodology course, though certain methods and approaches will be discussed as they are direct applications of 2L theories. Instead, students will be exposed to what research data show about the complex process of learning a second language, and to teach them how to rely on these data to understand a number of major models (theories) of 2LL and, as a result, be able to use this knowledge to evaluate different methods, materials and assessments for 2LL/CLD populations. The course presupposes no formal study or knowledge of language/ linguistics. As part of the course content, we will seek to foster cultural sensitivity to the diverse student population becoming increasingly prevalent in classrooms in the U.S. We will also be concerned with providing the basic skills needed to satisfactorily assess the suitability of diverse 2LL methodologies & programs to meet the needs of limited English proficiency (LEP) students. An underlying assumption of the course is that learning is a social process that takes place within the broader social milieu of the learner's speech community. Accordingly, 2L learners bring into the classroom diverse language and cultural backgrounds, as well as a unique set of competencies, skills, sensitivities, goals, and needs. In order to provide for a successful learning environment, teachers must be able to identify and relate to the diversity inherent in today's student population and be able to take affirmative steps towards addressing the needs of the students in their classrooms. Course content and activities will assist participants in developing a greater appreciation of democracy and diversity in the classroom as we prepare for a global society as reflected in current theories of 2L acquisition.

Prerequisite(s):

Clear Fingerprint background check

Select 3 Elective Courses

CLD 404 - TESOL Methods

3 Credit(s)

This course introduces students to the study, philosophy, aims and methods of teaching English as a second (or foreign language) with an emphasis upon the techniques and materials in current use. It aims at providing for examination of

current theory and empirical data on language learning, as well as for scrutinizing pertinent pedagogical implications/applications for the TESOL K-12/ CLD classroom intended to address the language needs of non-native speakers of English. In addition, the course reviews research-based instructional methodologies applicable to teaching language through the content areas. The course considers the large storehouse of information; currently available on how to successfully tap into this knowledge in order to develop and implement sound methodological approaches which will assist SL/ CLD learners in becoming proficient in the target language and successful in the academic content areas. Content addresses teachers' need to rely on effective instructional approaches and strategies that promote a climate that is conducive to opportunities for active involvement in learning about language, academic content, about classmates, and about the whole world. The course examines a synthesis of current 2L theory that should serve as the basis for development, selection, and modification of suitable materials and methods that will predictably be conducive to successful learning in both the language and content area classroom.

Prerequisite(s):

Clear Fingerprint background check

CLD 405 - TESOL Reading

3 Credit(s)

This course introduces students interested in questions of language acquisition to the theories and practices relating to learning to read in a second language or second dialect. Topics included are models for acquiring foreign language reading skills, teaching strategies for second language/dialect literacy, evaluating literacy skills, current research about acquisition of literacy skills, and political and social implications of second language/dialect literacy. The content addresses specifics about teaching reading for ELL/ CLD populations in classrooms. Opportunity is provided for candidates to become familiar with resources and data on school populations. The main goal of this course is to assist practicing or prospective teachers to learn how to promote development or crucial reading skills among ELL students. The course seeks to reexamine the pedagogical issues central to the 2L reading classroom, to be able to select suitable materials, to develop appropriate reading activities, to identify valid assessment measures, and to plan effective reading lessons suitable for instruction of ESL/CLD students.

Prerequisite(s):

Clear Fingerprint background check

CLD 406 - TESOL Writing

3 Credit(s)

This course introduces students interested in questions of language acquisition to the theories and practices of learning to write in a second language or second dialect. Topics included are 2L literacy development, writing theory, writing strategies, and 2L writers and rhetorical concerns. In addition, content examines teaching methodologies for second language/dialect literacy, assessment/evaluation of literacy skills, current research about acquisition of literacy skills, and political, cultural and social implications of ESL/ CLD literacy development. The main goal of this course is to assist practicing or prospective teachers to develop proficiency in promoting development of crucial 2L literacy/ writing skills among English Language Learners (ELLs). Content is responsive to the need to reexamine pedagogical issues central to the 2L writing classroom, and also be able to select suitable materials, to develop appropriate activities that address both second language literacy and content area knowledge, to identify valid assessment measures, to integrate technology into classrooms and to plan effective writing lessons suitable to the 2L classroom. Lastly, as part of the course content, we will seek to foster cultural sensitivity to the diverse student population becoming increasingly prevalent in classrooms in the U.S. We will also be concerned with providing the basic skills needed to satisfactorily assess the suitability of diverse 2LL methodologies & programs to meet the needs of limited English proficiency (LEP) students. An underlying assumption of the course is that learning is a social process that takes place within the broader social milieu of the learner's speech community. Accordingly, 2L learners bring into the classroom diverse language and cultural backgrounds, as well as a unique set of competencies, skills, sensitivities, goals, and needs. They may also

bring with them different levels of L1 literacy skills. In order to provide for a successful learning environment, teachers must be able to identify and relate to the diversity inherent in today's student population and be able to take affirmative steps towards addressing the needs of the students in their classrooms. Course content and activities will assist participants in developing a greater appreciation of democracy and diversity in the classroom as we prepare for a global society as reflected in current theories of 2L development for academic purposes.

Prerequisite(s):

Teacher Education Background Check Passed

CLD 407 - TESOL Tests & Measurements

3 Credit(s)

This course examines language assessments in TESOL/ CLD. Course contents is intended to provide a practical and comprehensive overview of the different phases and activities involved in developing and implementing sound, rational, and effective language assessment instruments and activities. The course recognizes the relevance of context, purposiveness, and realistic discourse in testing. Specifically, the initial segment of the course will emphasize an integrated approach to educating English language learners (ELL) students, which encompasses social, cognitive, academic as well as linguistic dimensions and how to better assess the language instruction needs of ESL/CLD students. The course will focus on the practical applications of fundamental assessment principles, as well as development and evaluation of teacher-generated instruments for placement and diagnosis. Content discusses various principles for guiding either practicing and prospective teachers through an assessment process mindful of standards-based instruction (e.g., dictation, cloze summary, oral interview, role-plays, portfolio assessment techniques) for teaching ESL/ CLD students at various levels. Specific topics addressed include, 1. Innovative means of assessing reading ability, 2. Standards and performance outcomes, 3. Evaluating writing & reading, 4. Computers in assessment, as well as computer-based tests, 5. Interpretation of summative assessments of content knowledge, 6. Administration and interpretation of the results of summative assessments of English language proficiency, 7. Development, administration and interpretation of the results of formative assessments, 8. Theoretical and practical foundations of assessment for CLD populations, 9. Practices and approaches to testing that is responsive to varied measurement contexts, 10. Evaluation of reliability and validity of measures, and a variety of techniques available that.

Prerequisite(s):

Clear Fingerprint background check

CLD 408 - Bilingualism

3 Credit(s)

This course is a study of what it means to be a bilingual child or adult. It explores both the mind's role in bilingualism and in language acquisition as well as societal considerations. It surveys educational systems response to language variance among students and explores the social, academic and language learning consequences of growing up bilingual. Content seeks to familiarize students with various aspects of bilingual education and language contact from a social-psychological perspective. It aims at providing for analysis and evaluation of current theory and research on bilingualism, as well as for examination of pertinent pedagogical implications/applications. First, we are interested in both social and individual factors related to bilingualism. That is, how and why bilingualism originates both as an individual and a societal phenomenon, and the social-psychological consequences of the same. Accordingly, we will consider topics such as: language attitudes, language and nation, bilingualism and inter-group relations, speech style and social evaluation. Second, we will also consider some important aspects of language contact such as: linguistic borrowing; code switching; language maintenance and language shift; English as a language of wider communication; language and context; diglossia; conversational interactions; language policy; language and culture. Third, we will also examine some significant aspects of the psychology of bilingualism. Specific topics to be covered are: cognitive and sociocultural consequences of bilingualism; neurolinguistic aspects of language acquisition and bilingualism; theoretical and research issues of bilingual education; performance of bilingual children on standardized tests;

alternative approaches to testing and assessment of bilinguals; the teaching of English to non-native English speakers in the state of Colorado. NOTE: A supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

CLD 479 - Special Topics

0.5 to 6 Credit(s)

Offered periodically to meet the needs of students.

Prerequisite(s):

Clear Fingerprint background check

Plus Additional Elementary Education Licensure Requirements from the School of Education

Bachelor of Arts in Elementary Education

Bachelor of Arts in Elementary Education Licensure, Literacy Emphasis

Go to: Bachelor of Arts in Elementary Education

Go to: Languages, Literature, and Media Communication

Degree Requirements

- Completion of requirements for a bachelor's degree
- A minimum of 120 academic (non-PE) semester hours of credit.
- At least 42 academic credits must be upper division (300- to 400-level).
- A cumulative scholastic average of 2.0.
- General education courses must be completed with an average GPA of at least 2.0.
- All general education, major, minor, area of concentration, or teacher licensure requirements must be satisfied.
- All students must demonstrate writing proficiency by the end of the sophomore year.
- No D grade may apply to a major or minor field.
- For elementary education licensure, students must complete the Content Area Emphasis and Bachelor of Arts in Interdisciplinary Studies Degree Requirements

Required Courses for Emphasis

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T
AND

ENG 102 Minimum Grade: C- OR T

ENG 226 - Introduction to Linguistics

3 Credit(s)

This course is an in-depth introduction to linguistics. It will include discussion of the syntax, phonology, morphology, semantics, and pragmatics of English. Additionally it may include a basic introduction to issues such as historical linguistics, first and second language acquisition, psycholinguistics, sociolinguistics, and other issues relevant to the field.

Prerequisite(s):

ENG-101 Minimum Grade: C- OR T

ENG 227 - Introduction to Creative Writing

3 Credit(s)

Students write and read poetry, fiction, creative nonfiction, and drama, develop aesthetic standards, and evaluate their writing and that of their classmates. Course emphasizes the writing process, including strategies for invention and revision, and presents ideas for teaching creative writing.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

- One literature course, 300 level or above
- One writing course, 300 level or above
- One English elective, 300 level or above (or a COMM or THTR course upon department chair approval)

Plus Additional Elementary Education Licensure Requirements from the School of Education

Bachelor of Arts in Elementary Education

Bachelor of Arts in Elementary Education Licensure, Mathematics Emphasis

Go to: Bachelor of Arts in Elementary Education

Go to: Mathematics

Students must complete a minimum of 15 credits

Two courses from this list must be selected

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T
OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T
OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Pick two or three courses from the following so that the total emphasis coursework totals a minimum of 15 credits

MATH 140 - Geometry Using Technology

3 Credit(s)

An introduction to the major concepts of Euclidean Geometry using interactive geometric visualization software such as Geometer's Sketchpad, Kig, or C.a.R. Students will use the software to survey Euclidean Geometry and discover basic principles and theorems.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

Accuplacer - Math - Minimum Score: 085

OR

MATH 99 Minimum Grade: S OR T

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

MATH 230 - Excursions in Mathematics**3 Credit(s)**

A quantitative and qualitative exploration of some of the great ideas and methods of mathematics. The main focus is on critical thinking and problem solving, as well as mathematical communication. Topics covered include infinity, logic, probability, statistics, Fibonacci numbers, the golden ratio, topology, non-Euclidean geometry, graphs, Pascal's triangle, tiling, fractals, voting theory chaos, and higher dimensions.

Prerequisite(s):

MATH 107 Minimum Grade: C- OR T
OR

MATH 120 Minimum Grade: C- OR T

CSCI 104 - Fundamentals of Programming**3 Credit(s)**

This course is the first course in the introductory programming sequence for computer science and information technology majors, but is suitable for non-majors interested in getting a taste of computer programming. The course covers program creation, basic control structures, variables, arithmetic expressions, functions, parameters, internal documentation, arrays and strings.

OR

CSCI 202 - Programming for Science/Math/Engineering**3 Credit(s)**

Covers the fundamentals of programming in a language widely used in mathematical, scientific, and engineering disciplines. The programming language may vary each time the course is offered. Examples of languages that may be used in the course include C++, Python, and MatLab.

Prerequisite(s):

Math Placement Test - Minimum Score: 5

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

Only CSCI 104 or CSCI 202 can be completed as part of the emphasis area.

Plus Additional Elementary Education Licensure Requirements from the School of Education

Bachelor of Arts in Elementary Education

Bachelor of Arts in Elementary Education Licensure, Music Emphasis

Go to: Bachelor of Arts in Elementary Education

Go to: Music

Required Courses in Music

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

MUS 101 - Music Fundamentals

2 Credit(s)

An introductory course for music majors and minors that includes the fundamentals of music theory, notation, and basic aural skills. May not be counted as credit towards a music degree.

MUS 103 - Introduction to Music Technology

1 Credit(s)

An introduction to music technology, covering a broad range of topics such as music notation, MIDI, music sequencing, mixing, and basic audio editing. The programs to be used include Finale, Garageband, and Audacity, and students compose music utilizing basic concepts of music fundamentals and music theory. The goal of this course is to equip students with music technology skills and knowledge that will be of benefit during their collegiate and professional careers.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 120 - Class Piano I

1 Credit(s)

A study of beginning keyboard techniques with emphasis on the skills needed to fulfill the piano proficiency requirement.

MUS 121 - Class Piano II

1 Credit(s)

A study of intermediate keyboard techniques with emphasis on the skills needed to fulfill the piano proficiency requirement.

Prerequisite(s):

MUS 120 Minimum Grade: C- OR T

MUS 130 - Secondary Applied Music

1 Credit(s)

Private instruction in applied music. Applicable to a music degree only as secondary applied credit. May be repeated for credit (eight hours maximum).

MUS 247 - Concert Choir

1 Credit(s)

Open to all qualified students with repertoire selected from the standard choral concert literature. May be repeated for credit.

OR

MUS 257 - Chamber Choir

1 Credit(s)

An advanced mixed choral ensemble, open to students by audition. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

MUS 399 - Independent Study (Practicum)

3 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

MUS 421 - Elementary School Music Methods

3 Credit(s)

A comprehensive study of principles, procedures and pedagogical approaches for teaching and administering music programs in elementary schools (grades K-6). A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation. Students must be enrolled in the Teacher Education Program.

Prerequisite(s):

ED 200 Minimum Grade: C OR T
AND

ED 220 Minimum Grade: C OR T

AND

MUS 304 Minimum Grade: C OR T

AND

MUS 360 Minimum Grade: C OR T

AND

Admission to the Educator Preparation Program

AND

Teacher Education Background Check Passed

**Plus Additional Elementary Education Licensure Requirements from
the School of Education**

Bachelor of Arts in Elementary Education

Bachelor of Arts in Elementary Education Licensure, Science Emphasis

Go to: Bachelor of Arts in Elementary Education

Go to: Biology

Go to: School of Science, Technology, Engineering and Math (STEM)

To complete the Science Emphasis for Elementary Education Licensure, complete 15 hours of courses from the sections below by choosing one course from each of the four sections:

Pick One Course from Section One

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L
OR

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430
AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

Pick One Course from Section Two

CHEM 103 - Introduction to Forensic Chemistry GT-SC1

4 Credit(s)

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

AND

CHEM 103L - Introduction to Forensic Chemistry Lab GT-SC1

0 Credit(s)

Required companion laboratory to CHEM 103.

Co-requisite(s): CHEM 103

OR

CHEM 104 - Chemistry in Context GT-SC2

3 Credit(s)

This course is designed to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and in significant issues facing science, technology, and society.

OR

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

AND

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

OR

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

AND

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

Pick One Course from Section Three

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

Pick One Course from Section Four

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2

3 Credit(s)

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

OR

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-

OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

Plus Additional Elementary Education Licensure Requirements from the School of Education

Bachelor of Arts in Elementary Education

Bachelor of Arts in Elementary Education Licensure, Social Studies Emphasis

Go to: Bachelor of Arts, Secondary Education Licensure

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

Required Courses for Emphasis

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

Other Half of U.S. Survey Not Taken for Interdisciplinary Major Core (3 Hours)

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

OR

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Content Electives (9 Hours)

Recommended courses are listed below. Students **MUST** take courses from at least two of the following fields: HIST, POLS, ECON, SOC or ANTH.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

POLS 307 - Introduction to World Governments

3 Credit(s)

This course is specifically designed to prepare education majors for the licensing exam. It is also of interest to history/political science students who want a better understanding of institutions and systems.

HIST 357 - Mexico

3 Credit(s)

Historical survey of the social, intellectual, and political developments from the conquest to the present.

SOC 318 - Race, Class, and Gender

3 Credit(s)

The focus of this course is on the interrelated ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result and the dynamics of change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

POLS 393 - Women, Politics, and Culture

3 Credit(s)

Interdisciplinary analysis of politics and culture. Course examines the role of gender in the political culture of the United States and selected societies in industrialized and developing nations. Of special interest to those wishing to pursue an interest in women's studies and/or cultural anthropology.

Plus Additional Elementary Education Licensure Requirements from the School of Education

Bachelor of Arts in Elementary Education

Bachelor of Arts in Elementary Education Licensure, Spanish Emphasis

Go to: Bachelor of Arts in Elementary Education

Go to: Languages, Literature, and Media Communication

Required Spanish Courses for Spanish Emphasis

SPAN 103 - Elementary Spanish I

4 Credit(s)

A study of the principles of pronunciation, basic level conversation, essentials of grammar, written composition, and reading of materials of graded difficulty.

SPAN 104 - Elementary Spanish II

4 Credit(s)

A continuation of SPAN 103. Covers the principles of pronunciation, conversation, essentials of grammar, written composition, and reading of materials of graded difficulty.

Prerequisite(s):

SPAN 103 Minimum Grade: C- OR T

SPAN 203 - Intermediate Spanish I

3 Credit(s)

Review of grammar, written composition, and translation. Special attention to vocabulary building. Emphasis on understanding and speaking Spanish.

Prerequisite(s):

SPAN 104 Minimum Grade: C- OR T

SPAN 204 - Reading and Conversation

3 Credit(s)

Readings on cultural topics, discussions, speaking activities, review of some grammatical features, attention to vocabulary building. Emphasis on understanding and speaking Spanish.

Prerequisite(s):

SPAN 203 Minimum Grade: C- OR T

- 300-400 level SPAN Elective
- 300-400 level SPAN Elective

Plus Additional Elementary Education Licensure Requirements from the School of Education

Bachelor of Arts in Elementary Education

Bachelor of Arts in English, Creative Writing Emphasis

Go to: Languages, Literature, and Media Communication

Required Courses (33 hours)

ENG 226 - Introduction to Linguistics

3 Credit(s)

This course is an in-depth introduction to linguistics. It will include discussion of the syntax, phonology, morphology,

semantics, and pragmatics of English. Additionally it may include a basic introduction to issues such as historical linguistics, first and second language acquisition, psycholinguistics, sociolinguistics, and other issues relevant to the field.

Prerequisite(s):

ENG-101 Minimum Grade: C- OR T

ENG 227 - Introduction to Creative Writing

3 Credit(s)

Students write and read poetry, fiction, creative nonfiction, and drama, develop aesthetic standards, and evaluate their writing and that of their classmates. Course emphasizes the writing process, including strategies for invention and revision, and presents ideas for teaching creative writing.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

ENG 309 - British Literature I: Monsters and Magic

3 Credit(s)

This course is the first of a two-course historical survey of British Literature from the sixth to the twenty-first centuries. English 309 starts with the pre-Norman writers and ends in the mid eighteenth century. Eng. 310 begins with the eighteenth century and ends with contemporary authors. This combination of courses will lay the foundation for more advanced, focused study of specific authors and periods in the British literary tradition. Neither 309 or 310 will assume the other as a prerequisite.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 310 - British Literature II: Bodies and Empire

3 Credit(s)

This course is the second of a two-course historical survey of British Literature from the sixth to the twenty-first centuries. English 309 starts with the pre-Norman writers and ends in the mid eighteenth century. Eng. 310 begins with the eighteenth century and ends with contemporary authors. This combination of courses will lay the foundation for more advanced, focused study of specific authors and periods in the British literary tradition. Neither 309 or 310 will assume the other as a prerequisite.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 363 - Professionalization and Publishing

3 Credit(s)

Students will practice writing at an intensive level beyond the research or argument papers they wrote in English 102, and beyond the literary critiques they have written for literature courses. Instruction will focus on real-world skills and practical applications for writing. The course will also discuss writing-related career paths and professionalization techniques. Except for the senior capstone course, the writing here includes the ultimate writing tasks of the students undergraduate career. It is expected that several items from this course will contribute to the students' senior portfolio.

Prerequisite(s):

Junior or Senior Standing

ENG 365 - Ethnic and Minority Literature

3 Credit(s)

A study of the literature of Native American, African-American, Chicano, and other American ethnic and minority groups.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 394 - American Literature I: Discovery and Colonization

3 Credit(s)

Several of the figures studied in this class-such as Christopher Columbus, Anne Bradstreet, Hector St. Jean de Crevecoeur, and Thomas Jefferson-are frequently referenced in contemporary discussions of the American "character," yet are poorly understood by most. A basic knowledge of the literatures of colonial America and the early United States deepens students' understanding of these figures, and hence of American history, culture, politics, and identity. This course complements American Literature II and is required of all English liberal arts and secondary education majors.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 395 - American Literature II: Marginalized Voices

3 Credit(s)

Survey of American literature from 1865 to the present. Thematic emphases include the development of African American, Native American, and feminist literary traditions; industrialization, urbanization, and the closing of the frontier; realism, naturalism, and modernism; the Lost Generation; and the Sixties and postmodernism.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 403 - Shakespeare

3 Credit(s)

Combines study of comedies, histories, and tragedies.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

OR

ENG 407 - Chaucer: Epics and Dirty Jokes

3 Credit(s)

Concentrates mainly on the Canterbury Tales, but covers other major works as time permits.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

ENG 480 - Contemporary Literary Theory

3 Credit(s)

Study of the developments of literary critical theory and practice from the beginning of the 20th century to the present. Some emphasis on important earlier theories as they relate to contemporary developments.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 497 - Capstone Writing Workshop

3 Credit(s)

This course is designed as a capstone for all Creative Writing majors. The content of the course will focus on organization, editing, and honing of a final writing project.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

AND

ENG 214 Minimum Grade: C- OR T

OR

THTR 213 Minimum Grade: C- OR T

AND

ENG 227 Minimum Grade: C- OR T

AND

ENG 326 Minimum Grade: C- OR T

AND

ENG 327 Minimum Grade: C- OR T

AND

ENG 328 Minimum Grade: C- OR T

Two Courses from the following (6 hours)

ENG 413 - World-Building: SciFi/Horror/Fantasy

3 Credit(s)

Students will further develop their craft and creativity in the genres of science fiction, fantasy, and horror through developing all elements of fiction and adding research and world-building. Students will submit their original writing, read works of published speculative fiction, science fiction, fantasy, and horror, and critique their own work and the work of their classmates.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

AND

ENG 227 Minimum Grade: C- OR T

AND

ENG 327 Minimum Grade: C- OR T

ENG 326 - Creative Writing Poetry Workshop I

3 Credit(s)

This course will teach students to develop their craft and creativity in the genre of poetry. Students submit original poems weekly, read selected works of contemporary, published poetry, and critique their own work and that of their classmates. Students practice revision and submit revised work in a final portfolio of at least 10 pages.

Prerequisite(s):

ENG 227 Minimum Grade: C- OR T

AND

ENG 210 Minimum Grade: C- OR T

OR

ENG 203 Minimum Grade: C- OR T

ENG 327 - Fiction Workshop I

3 Credit(s)

This course will teach students to develop creativity in the genre of prose fiction (short story). Students will submit their original writing, read works of published fiction, and critique their own work and the work of their classmates.

Prerequisite(s):

ENG 227 Minimum Grade: C- OR T

ENG 328 - Creative Nonfiction I

3 Credit(s)

This course covers techniques in nonfiction writing encompassing a variety of styles, forms, and topics, encouraging exploration of the genre's innumerable possibilities while developing the student's personal and critical theories of writing.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

AND

ENG 227 Minimum Grade: C- OR T

Two Courses from the following (6 hours)

ENG 301 - The Graphic Novel

3 Credit(s)

This course will discuss the form, history, context, and influence of graphic novels.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

ENG 322 - Interactive Storytelling

3 Credit(s)

This course is a survey of forms of interactive literature encompassing media (e.g. video games, interactive films, collaborative stories, role-playing games, gamebooks, new intersections of interactive art and technology). This course will include strategies for creating interactive stories with the goal of broadening and developing the students' own skills in generating or facilitating interactive stories.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

AND

ENG 227 Minimum Grade: C- OR T

ENG 426 - Poetry Workshop II

3 Credit(s)

This course will teach students to further develop their craft and creativity in the genre of poetry. Students will submit original poems weekly, read selected works of contemporary published poetry, and critique their own work and the work of their classmates. They will practice revision and submit revised work in a portfolio of at least 15 pages.

Prerequisite(s):

ENG 326 Minimum Grade: C- OR T

ENG 427 - Fiction Workshop II

3 Credit(s)

This course will teach students to further develop their craft and creativity in the genre of prose fiction (short story). Students will submit their original writing, read works of published fiction, and critique their own work and the work of their classmates.

Prerequisite(s):

ENG 327 Minimum Grade: C- or T

ENG 428 - Creative Nonfiction II

3 Credit(s)

This course covers advanced techniques in nonfiction writing begun in ENG 328 as the student assembles a portfolio of work suitable for application to graduate programs.

Prerequisite(s):

ENG 328 Minimum Grade: C- OR T

- Summer Writing Workshops as approved by advisor

Overall total required credits for B.A. English Creative Writing 45 hours

Bachelor of Arts in English, Literature Emphasis

Go to: Languages, Literature, and Media Communication

Program Requirements (45 credits total)

Required Courses (36 credits)

ENG 226 - Introduction to Linguistics

3 Credit(s)

This course is an in-depth introduction to linguistics. It will include discussion of the syntax, phonology, morphology, semantics, and pragmatics of English. Additionally it may include a basic introduction to issues such as historical linguistics, first and second language acquisition, psycholinguistics, sociolinguistics, and other issues relevant to the field.

Prerequisite(s):

ENG-101 Minimum Grade: C- OR T

ENG 227 - Introduction to Creative Writing

3 Credit(s)

Students write and read poetry, fiction, creative nonfiction, and drama, develop aesthetic standards, and evaluate their writing and that of their classmates. Course emphasizes the writing process, including strategies for invention and revision, and presents ideas for teaching creative writing.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

ENG 309 - British Literature I: Monsters and Magic

3 Credit(s)

This course is the first of a two-course historical survey of British Literature from the sixth to the twenty-first centuries. English 309 starts with the pre-Norman writers and ends in the mid eighteenth century. Eng. 310 begins with the eighteenth century and ends with contemporary authors. This combination of courses will lay the foundation for more advanced, focused study of specific authors and periods in the British literary tradition. Neither 309 or 310 will assume the other as a prerequisite.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 310 - British Literature II: Bodies and Empire

3 Credit(s)

This course is the second of a two-course historical survey of British Literature from the sixth to the twenty-first centuries. English 309 starts with the pre-Norman writers and ends in the mid eighteenth century. Eng. 310 begins with the eighteenth century and ends with contemporary authors. This combination of courses will lay the foundation for more advanced, focused study of specific authors and periods in the British literary tradition. Neither 309 or 310 will assume the other as a prerequisite.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 363 - Professionalization and Publishing

3 Credit(s)

Students will practice writing at an intensive level beyond the research or argument papers they wrote in English 102, and beyond the literary critiques they have written for literature courses. Instruction will focus on real-world skills and practical applications for writing. The course will also discuss writing-related career paths and professionalization techniques. Except for the senior capstone course, the writing here includes the ultimate writing tasks of the students undergraduate career. It is expected that several items from this course will contribute to the students' senior portfolio.

Prerequisite(s):

Junior or Senior Standing

ENG 365 - Ethnic and Minority Literature

3 Credit(s)

A study of the literature of Native American, African-American, Chicano, and other American ethnic and minority groups.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 394 - American Literature I: Discovery and Colonization

3 Credit(s)

Several of the figures studied in this class-such as Christopher Columbus, Anne Bradstreet, Hector St. Jean de Crevecoeur, and Thomas Jefferson-are frequently referenced in contemporary discussions of the American "character," yet are poorly understood by most. A basic knowledge of the literatures of colonial America and the early United States deepens students' understanding of these figures, and hence of American history, culture, politics, and identity. This course complements American Literature II and is required of all English liberal arts and secondary education majors.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 395 - American Literature II: Marginalized Voices

3 Credit(s)

Survey of American literature from 1865 to the present. Thematic emphases include the development of African American, Native American, and feminist literary traditions; industrialization, urbanization, and the closing of the frontier; realism, naturalism, and modernism; the Lost Generation; and the Sixties and postmodernism.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 403 - Shakespeare

3 Credit(s)

Combines study of comedies, histories, and tragedies.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

ENG 480 - Contemporary Literary Theory

3 Credit(s)

Study of the developments of literary critical theory and practice from the beginning of the 20th century to the present. Some emphasis on important earlier theories as they relate to contemporary developments.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

ENG 490 - Major Authors

3 Credit(s)

Study of major figures in fiction, dramatic literature, and poetry. Author(s) will be selected by instructor. Students may repeat this course for credit if the course material is significantly different from the previously taken course. Students should consult with their advisor about course selection.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

ENG 495 - Senior Seminar

3 Credit(s)

This course is designed to be the academic capstone experience for all students who are majoring in English/Liberal Arts and to prepare students for graduate studies in the field. Subject matter will vary depending upon the instructor's specialization or area of interest. All seminar students will write a major research essay that reflects the student's mastery of library usage, research methodology, breadth of knowledge, critical thinking, and writing ability.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

Plus 300 and 400-level English Literature Electives Approved by Advisor

Bachelor of Arts in English, Secondary Teacher Licensure

Go to: Bachelor of Arts, Secondary Education Licensure
Go to: Languages, Literature, and Media Communication

1. Complete the Following Required Courses

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T
AND

ENG 102 Minimum Grade: C- OR T

ENG 226 - Introduction to Linguistics

3 Credit(s)

This course is an in-depth introduction to linguistics. It will include discussion of the syntax, phonology, morphology, semantics, and pragmatics of English. Additionally it may include a basic introduction to issues such as historical linguistics, first and second language acquisition, psycholinguistics, sociolinguistics, and other issues relevant to the field.

Prerequisite(s):

ENG-101 Minimum Grade: C- OR T

ENG 227 - Introduction to Creative Writing

3 Credit(s)

Students write and read poetry, fiction, creative nonfiction, and drama, develop aesthetic standards, and evaluate their writing and that of their classmates. Course emphasizes the writing process, including strategies for invention and revision, and presents ideas for teaching creative writing.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

ENG 309 - British Literature I: Monsters and Magic

3 Credit(s)

This course is the first of a two-course historical survey of British Literature from the sixth to the twenty-first centuries.

English 309 starts with the pre-Norman writers and ends in the mid eighteenth century. Eng. 310 begins with the eighteenth century and ends with contemporary authors. This combination of courses will lay the foundation for more advanced, focused study of specific authors and periods in the British literary tradition. Neither 309 or 310 will assume the other as a prerequisite.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 310 - British Literature II: Bodies and Empire

3 Credit(s)

This course is the second of a two-course historical survey of British Literature from the sixth to the twenty-first centuries. English 309 starts with the pre-Norman writers and ends in the mid eighteenth century. Eng. 310 begins with the eighteenth century and ends with contemporary authors. This combination of courses will lay the foundation for more advanced, focused study of specific authors and periods in the British literary tradition. Neither 309 or 310 will assume the other as a prerequisite.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 314 - Adolescent Literature

3 Credit(s)

A course designed to acquaint prospective teachers of English with representative literature of adolescence.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 316 - Methods/English in Secondary School

3 Credit(s)

A study of effective teaching methods used in presenting grammar, composition, and literature to junior and senior school students. Usually taken as part of the Education licensure senior block. Students should have a strong preparation in upper-division English content courses. Admission to the Teacher Education Program is required. This course must be taken along with other courses designated in the senior block. Students wishing to take the course who do not meet the above requirements must obtain instructor permission.

Prerequisite(s):

ED 200 Minimum Grade: C OR T
AND

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

AND

ENG 226 Minimum Grade: C- OR T

AND

Admission to the Educator Preparation Program

AND

Teacher Education Background Check Passed

AND

ED 220 Minimum Grade: T

ENG 357 - Studies in Linguistics

3 Credit(s)

This course is an in-depth study of topics related to linguistics. These topics may include historical linguistics, first and second language acquisition, psycholinguistics or sociolinguistics.

Prerequisite(s):

ENG 226 Minimum Grade: C- OR T

ENG 359 - Mythology

3 Credit(s)

An in-depth study of world mythology to familiarize students with major cultural and literary traditions.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 358 - Bible as Literature

3 Credit(s)

This course analyzes the Bible as literature, examines the use of biblical motifs, imagery, and themes in post-biblical texts, and explores the First Amendment challenges confronting those who plan to teach Bible-as-literature courses in the public schools.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

ENG 363 - Professionalization and Publishing

3 Credit(s)

Students will practice writing at an intensive level beyond the research or argument papers they wrote in English 102, and beyond the literary critiques they have written for literature courses. Instruction will focus on real-world skills and practical applications for writing. The course will also discuss writing-related career paths and professionalization techniques. Except for the senior capstone course, the writing here includes the ultimate writing tasks of the students' undergraduate career. It is expected that several items from this course will contribute to the students' senior portfolio.

Prerequisite(s):

Junior or Senior Standing

ENG 365 - Ethnic and Minority Literature

3 Credit(s)

A study of the literature of Native American, African-American, Chicano, and other American ethnic and minority groups.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

OR

ENG 375 - Chicano Literature

3 Credit(s)

This course explores the canon of Chicana/o Literature and its multiple influences. Specifically, the course deals with the cultural, political and societal climates that necessitated the literature. The course will focus on oral tradition and its evolution into other genres of Chicana/o Literature (poetry, fiction, & essay). Chicana/o Literature (poetry, fiction, & essay).

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 394 - American Literature I: Discovery and Colonization

3 Credit(s)

Several of the figures studied in this class—such as Christopher Columbus, Anne Bradstreet, Hector St. Jean de

Crevecoeur, and Thomas Jefferson-are frequently referenced in contemporary discussions of the American "character," yet are poorly understood by most. A basic knowledge of the literatures of colonial America and the early United States deepens students' understanding of these figures, and hence of American history, culture, politics, and identity. This course complements American Literature II and is required of all English liberal arts and secondary education majors.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 395 - American Literature II: Marginalized Voices

3 Credit(s)

Survey of American literature from 1865 to the present. Thematic emphases include the development of African American, Native American, and feminist literary traditions; industrialization, urbanization, and the closing of the frontier; realism, naturalism, and modernism; the Lost Generation; and the Sixties and postmodernism.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 403 - Shakespeare

3 Credit(s)

Combines study of comedies, histories, and tragedies.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

Plus Additional Secondary Education Licensure Requirements from the School of Education

Bachelor of Arts, Secondary Education Licensure

Bachelor of Arts in Geosciences

Go to: Geosciences

Specific courses required for this degree:

A. Required Courses (15 Credit Hours)

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

GSCI 112 - Earth History

4 Credit(s)

Introduction to the geological evolution of the earth through time using basic principles of stratigraphy and paleontology. Laboratory work includes identification and classification of fossils and correlation of sedimentary environments.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

GSCI 201 - Introduction to Cartography and GIS

3 Credit(s)

This course will introduce students to the core concepts of Geographic Information Systems (GIS) and the importance and relevance of GIS in today's world. Students will learn what GIS is, what it is used for, and how to perform basic and core tasks involving GIS analysis. An objective is to help students develop the ability to think critically about cartographic processes and representations as well as develop their skills in creating maps. Students are expected to have basic computer proficiency prior to enrolling in this course.

GSCI 350 - Geology Excursion

2 Credit(s)

This course centers around a field trip experience of approximately one week, generally during spring break, to different areas of the southwestern U.S. This course may be taken only twice for credit. An additional fee is required. Camping and outdoor activity is required.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 450 - Senior Capstone in Geosciences

2 Credit(s)

Capstone experiences integrate material learned in the major through independent research and creative thinking by students. The capstone experience may include a primary research experience (such as field project or internship) or a substantive exploration of a geoscience topic. Emphasis is also placed on effective writing and oral presentation skills.

B. A Minimum Of 2 Courses From The Following (7 To 8 Credits)

GSCI 307 - Bio-Geography

3 Credit(s)

The course builds upon topics introduced in the introductory physical geography and general biology courses and synthesizes concepts addressed in other upper-division courses dealing with vegetation science, climatology, soil, historical geology, ecology, and evolution to explain patterns and processes influencing past and present distributions of organisms.

Prerequisite(s):

GSCI 109 Minimum Grade: C-
AND

BIOL 209 Minimum Grade: C-

GSCI 311 - Climatology

4 Credit(s)

This course examines the global patterns of climate and the processes that shape them. Particular attention is given to climate change mechanisms (past & present), human-induced changes to the climate system, and likely future climates. Field- and computer-based methodology relevant to the field of climatology is also emphasized.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 321 - Geomorphology with Environmental Applications

4 Credit(s)

This course is a study of the processes that control the development of the materials and landforms found on the earth's surface. An emphasis is placed upon the hydrologic and variables in generating landforms and human interactions with these formative processes. Field trips, topographic map, and aerial photo exercises are required. Offered spring semester of even-numbered years.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 330 - Nature and Properties of Soils

4 Credit(s)

This course analyzes soils as natural bodies and managed resources, focusing on impacts of landforms, hydrology, nutrients, and organisms on soils. The laboratory includes analysis of soil patterns, methods of sampling, and techniques of determining physical and chemical properties of soils. Course includes three hours of lecture and two hours of laboratory per week.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

GSCI 411 - Mountain Geography

3 Credit(s)

This class focuses on the physical science of mountains, including the origin of mountains as well as the climatic, geomorphic, and ecological processes and patterns found in mountain environments. The impact of mountains on human settlement and activities are discussed, as well as how humans have impacted mountain environments.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 421 - Glacial and Periglacial Geography

3 Credit(s)

This course will examine geomorphological aspects of the cryosphere, giving emphasis to the study of landforms and sediments created by ice sheets and periglacial processes both past and present. Where relevant, the applied aspects of

glacial and periglacial geomorphology will be given specific attention.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

C. A Minimum Of 2 Courses From The Following (7 To 9 Credits)

GSCI 331 - Macro and Optical Mineralogy

5 Credit(s)

This course provides a systematic identification of natural minerals and gemstones utilizing their physical, crystallographic, and optical characteristics.

Prerequisite(s):

GSCI 112 Minimum Grade: C- OR T

GSCI 371 - Structural Geology

4 Credit(s)

This course focuses on the recognition, representation, and significance of geologic structures of the earth's crust. This course includes occasional required field trips and is offered fall semester of even-numbered years.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 343 - Sedimentology and Stratigraphy

4 Credit(s)

This course studies the origin and occurrence of sedimentary materials and their vertical succession. Sediment dynamics and structures will be explored within various depositional settings. Course includes required field trips. GSCI-343 is complementary to Igneous and Metamorphic Petrology (GSCI-334).

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 433 - Environmental Geochem Model

3 Credit(s)

This lecture and computer modeling course examines the interaction of geological materials with the surface environment. Processes of transport and fate of contaminants and pollutants from natural and man made sources will be addressed, as well as the geology of some natural resources that contribute pollutants.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

AND

CHEM 131 Minimum Grade: C- OR T

OR

CHEM 132 Minimum Grade: C- OR T

GSCI 440 - Groundwater

4 Credit(s)

This course explores the groundwater system and its relationship with surface water systems of rivers, lakes, and oceans.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620 and GSCI 112 Minimum Grade: C- or T

D. A Minimum Of 2 Courses From The Following (5 To 8 Credits)

GSCI 212 - Natural Resource Management on Public Lands

3 Credit(s)

This course will examine public lands management from both a theoretical and descriptive perspective. The major political forces affecting public lands, and the specific details of energy policy, forests, rangelands, national parks, and wildlife on public lands are discussed.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

OR

BIOL 330 Minimum Grade: C-

GSCI 300 - World Geography

3 Credit(s)

The course examines human or cultural geography with a global perspective. It uses a topic centered approach. It is intended to give the student an appreciation of the interaction between physical geography, environment, and cultural practices.

GSCI 420 - Remote Sensing

4 Credit(s)

The course considers acquisition and interpretation of remote sensed environmental data, theory and sensors, and manual and computerized interpretation methods.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T
AND

GSCI 201 Minimum Grade: C- OR T

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T
AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

BIOL 314 - Conservation Biology

3 Credit(s)

Conservation biology is the study of how to preserve the world's biological and genetic diversity while maintaining functional ecosystems. The course will explore these issues using an integrated approach with emphasis on identifying ways that wildlife and humans can sustainably coexist.

Prerequisite(s):

BIOL 330 Minimum Grade: C- OR T
OR

GSCI 307 Minimum Grade: C- OR T

BIOL 468 - Vegetation/Habitat Management

3 Credit(s)

A study of the composition, structure and productivity of vegetation with emphasis on ecological applications in creating and managing wildlife habitat.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

OR

BIOL 330 Minimum Grade: C- OR T

AND

GEOG 212 Minimum Grade: C- OR T

E. A Minimum Of 1 Course From The Following (3 Credit Hours)

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 384 - Natural Resources/Water Law

3 Credit(s)

The goal of this course is to provide students with knowledge of the regulatory responsibilities related to agriculture production and operations with respect to natural resources and water. The course will cover federal, state, and local requirements as well as application to agribusiness endeavors.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 211 Minimum Grade: C- OR T

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

F. Completion Of Required Support Courses (21 Credit Hours)

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 112 - Introduction to Organic/Biological Chemistry

4 Credit(s)

A study of the fundamental concepts of organic chemistry and biochemistry. Will not satisfy requirements for a chemistry major, minor or pre-professional studies (pre-med etc.) The course is satisfactory for biology majors who take only one year of chemistry, and for HPPE advanced track.

Prerequisite(s):

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 112L

OR

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T
OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T
OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Total Credit Hours 58-64

A Minor Is Highly Recommended

Bachelor of Arts in Geosciences, Science Education Emphasis with Geosciences Secondary Teacher Licensure

Go to: Bachelor of Arts, Secondary Education Licensure

Go to: Geosciences

The secondary teacher licensure program qualifies a student for a Colorado standard teaching license in science education.

1. Complete the Following Required Courses

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

GSCI 112 - Earth History

4 Credit(s)

Introduction to the geological evolution of the earth through time using basic principles of stratigraphy and paleontology. Laboratory work includes identification and classification of fossils and correlation of sedimentary environments.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

GSCI 321 - Geomorphology with Environmental Applications

4 Credit(s)

This course is a study of the processes that control the development of the materials and landforms found on the earth's surface. An emphasis is placed upon the hydrologic and variables in generating landforms and human interactions with these formative processes. Field trips, topographic map, and aerial photo exercises are required. Offered spring semester of even-numbered years.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 331 - Macro and Optical Mineralogy

5 Credit(s)

This course provides a systematic identification of natural minerals and gemstones utilizing their physical, crystallographic, and optical characteristics.

Prerequisite(s):

GSCI 112 Minimum Grade: C- OR T

GSCI 334 - Igneous/Metamorphic Petrology

5 Credit(s)

The study of the occurrence and origin of igneous and metamorphic rock. Laboratory exercises will emphasize the petrographic analysis of both macro and optical components of igneous and metamorphic rocks. Course includes field trips. Course is offered Spring semester of even-numbered years. GSCI-334 is a complimentary course with GSCI-343 Sedimentology and Stratigraphy

Prerequisite(s):

GSCI 331 Minimum Grade: C- OR T

GSCI 343 - Sedimentology and Stratigraphy**4 Credit(s)**

This course studies the origin and occurrence of sedimentary materials and their vertical succession. Sediment dynamics and structures will be explored within various depositional settings. Course includes required field trips. GSCI-343 is complementary to Igneous and Metamorphic Petrology (GSCI-334).

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 371 - Structural Geology**4 Credit(s)**

This course focuses on the recognition, representation, and significance of geologic structures of the earth's crust. This course includes occasional required field trips and is offered fall semester of even-numbered years.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

Complete All Support Courses**BIOL 209 - General Biology I GT-SC1****5 Credit(s)**

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

ED 350 - Methods for Teaching Science - Secondary

3 Credit(s)

This course is designed to support the beginning secondary science teacher. Presuming a solid foundation of conceptual knowledge in the content area, the course emphasizes the development of a framework of instructional knowledge and skills to provide successful learning for all students.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

GSCI 300 - World Geography

3 Credit(s)

The course examines human or cultural geography with a global perspective. It uses a topic centered approach. It is intended to give the student an appreciation of the interaction between physical geography, environment, and cultural practices.

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T
OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2

3 Credit(s)

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound.

Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

Recommended Courses

CSCI 104 - Fundamentals of Programming

3 Credit(s)

This course is the first course in the introductory programming sequence for computer science and information technology majors, but is suitable for non-majors interested in getting a taste of computer programming. The course covers program creation, basic control structures, variables, arithmetic expressions, functions, parameters, internal documentation, arrays and strings.

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

GSCI 201 - Introduction to Cartography and GIS

3 Credit(s)

This course will introduce students to the core concepts of Geographic Information Systems (GIS) and the importance and relevance of GIS in today's world. Students will learn what GIS is, what it is used for, and how to perform basic and core tasks involving GIS analysis. An objective is to help students develop the ability to think critically about cartographic processes and representations as well as develop their skills in creating maps. Students are expected to have basic computer proficiency prior to enrolling in this course.

GSCI 123 - Geology of the San Luis Valley

1 Credit(s)

This course explores the local geology of the San Luis Valley and surrounding areas on day trips. Course is offered during the fall or spring semester. Outdoor activity required.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

Note

A minor in biology, chemistry, mathematics or physics is highly recommended for placement in a teaching position.

Plus Additional Secondary Education Licensure Requirements from the School of Education

Bachelor of Arts, Secondary Education Licensure

Bachelor of Arts in HAPS, Anthropology Emphasis

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

Required Courses

Completion of 6 Credits of World History

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

Completion of the following Core Courses

ANTH 471 - Senior Seminar in Anthropology

3 Credit(s)

This is a capstone course which will cover the central theories that have driven the field of anthropology over the last 200 years. All students enrolled in the Senior Seminar will also write their Senior Comprehensive Examinations as part of the departmental requirement for all History/Government majors.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

Required Anthropology Courses

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching

approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ANTH 205 - Physical Anthropology

3 Credit(s)

The course will examine physical anthropology as a sub discipline of anthropology. The goal is to understand how the physical realities of being human affects the nature of culture. The central theme will be the evolution of humans from the earliest hominid forms to modern Homo sapiens. The course will focus on the mechanisms of evolution, an understanding of primate behavior in general, and the fossil evidence for hominid development.

ANTH 300 - Archaeology

3 Credit(s)

This course will provide an overview of archaeological method and theory with a particular emphasis on American archeology, and provide a general survey of prehistory with an emphasis on the western United States.

ANTH 310 - Anthropological Linguistics

3 Credit(s)

After a general introduction to the nature of language (descriptive linguistics) this course will focus on human communication and the uses of language (psycholinguistics and sociolinguistics) and on the language cognition relationship (cognitive anthropology and symbolic anthropology).

Plus, Select 4 Courses from the following Electives

ANTH 179 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

ANTH 192 - Workshops

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

ANTH 199 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interests in the field. By faculty permission and approval of the department chair.

ANTH 279 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

ANTH 292 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

ANTH 299 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

ANTH 330 - Humans and Water

3 Credit(s)

This class will explore the relationship between humans and water through space and time, focusing on the American West. We will look at how different cultural groups interact with and manipulate water, as well as how they view the natural resource. In addition, we will analyze how changes in water resources influenced human cultures.

ANTH 339 - Field School in Archaeology

6 Credit(s)

The purpose of this course is to provide students with the basic skills, and the theories from which they are derived, necessary to do archaeological fieldwork. The student will learn basic techniques of site identification and recording, excavation, and artifact processing and analysis. In addition, they will learn instrument surveying and introductory applications of geographic information systems. The skills taught will be appropriate for either prehistoric or historic sites.

ANTH 349 - Anthropology Internship

3 to 6 Credit(s)

This course provides the student with meaningful hands on experience in the field of Anthropology. Students will engage with internship work at a research library, museum, community organization, government agency, or other applicable institution to enhance their knowledge of sources, research methods, institutional cultures, and potential work environments.

ANTH 360 - Forensic Anthropology

3 Credit(s)

This class examines the science and methods of physical anthropology as it relates to the medico-legal work done to identify unknown human remains in atypical circumstances. This introductory course will introduce students to human osteology and dentition in relation to identifying age, sex, stature, and ancestry, as well as bone pathologies and techniques for estimating time of death and post-mortem changes. As part of the course, some visual materials will depict trauma and decomposition of human remains.

ANTH 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

ANTH 392 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

ANTH 399 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

ANTH 450 - Southwest Archaeology

3 Credit(s)

This course explores the greater Southwest from the earliest human inhabitants to Spanish colonization. We will discuss significant changes and trends in subsistence, technology, social systems, and political organization over roughly 15,000 years; from hunter-gatherers following mammoths on the landscape to the Pueblo Revolt of 1680. The course will give students an appreciation of the adaptations of people in the Southwest to an often harsh environment, while also introducing them to the methods and theories archaeologists use to understand the past.

ANTH 460 - Medical Anthropology

3 Credit(s)

This course will explore the cross-cultural significance of health and wellness from an anthropological perspective. We will delve into the complex interplay of biological, psychological, social, environmental, and political-economic processes on the concepts of illness, suffering, and healing. Particular emphasis will be placed on the ethnographic approach to the lived context in which wellness and suffering are experienced, narrated, and addressed.

ANTH 471 - Senior Seminar in Anthropology

3 Credit(s)

This is a capstone course which will cover the central theories that have driven the field of anthropology over the last 200 years. All students enrolled in the Senior Seminar will also write their Senior Comprehensive Examinations as part of the departmental requirement for all History/Government majors.

ANTH 479 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

ANTH 492 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

ANTH 499 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

ANTH 539 - Archaeology Field School

1 to 6 Credit(s)

Through actual field experience, the student will learn basic techniques of site identification and recording, excavation, and artifact processing and analysis. In addition, they will learn instruments surveying and introductory applications of geographic information systems. The skills taught will be appropriate for either prehistoric or historic sites.

ANTH 579 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

ANTH 592 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

ANTH 599 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Chair.

BIOL 321 - Genetics

3 Credit(s)

A study of Mendelian and molecular genetics of eukaryotes and prokaryotes. Discussions include basic Mendelian principles, meiosis/mitosis, linkage, gene expression, and molecular techniques. Course includes 3 hours of lecture and 1 hour of peer learning activities per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

OR

CHEM-132 Minimum Grade: C- OR T

AND

CHEM-132L Minimum Grade: C- OR T

BIOL 332 - Evolution

3 Credit(s)

A study of the history and development of evolutionary theory. Consideration is given to evidence for and mechanisms of evolution from anatomical, developmental, geological, mathematical, and molecular perspectives. Credit or concurrent registration in BIOL 330 is recommended. This course includes 3 hours of lecture per week.

Prerequisite(s):

BIOL 209 Minimum Grade: C- OR T
AND

BIOL 210 Minimum Grade: C- OR T

ENG 226 - Introduction to Linguistics

3 Credit(s)

This course is an in-depth introduction to linguistics. It will include discussion of the syntax, phonology, morphology, semantics, and pragmatics of English. Additionally it may include a basic introduction to issues such as historical linguistics, first and second language acquisition, psycholinguistics, sociolinguistics, and other issues relevant to the field.

Prerequisite(s):

ENG-101 Minimum Grade: C- OR T

ENG 359 - Mythology

3 Credit(s)

An in-depth study of world mythology to familiarize students with major cultural and literary traditions.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

ENG 425 - English Syntax

3 Credit(s)

A descriptive study of English syntax in the framework of generative-transformational grammar, with emphasis on theoretical approaches developed in the 1980's and later.

Prerequisite(s):

ENG 357 Minimum Grade: C- OR T

GSCI 201 - Introduction to Cartography and GIS

3 Credit(s)

This course will introduce students to the core concepts of Geographic Information Systems (GIS) and the importance and relevance of GIS in today's world. Students will learn what GIS is, what it is used for, and how to perform basic and core tasks involving GIS analysis. An objective is to help students develop the ability to think critically about cartographic processes and representations as well as develop their skills in creating maps. Students are expected to have basic computer proficiency prior to enrolling in this course.

GSCI 300 - World Geography

3 Credit(s)

The course examines human or cultural geography with a global perspective. It uses a topic centered approach. It is intended to give the student an appreciation of the interaction between physical geography, environment, and cultural practices.

GSCI 330 - Nature and Properties of Soils

4 Credit(s)

This course analyzes soils as natural bodies and managed resources, focusing on impacts of landforms, hydrology, nutrients, and organisms on soils. The laboratory includes analysis of soil patterns, methods of sampling, and techniques of determining physical and chemical properties of soils. Course includes three hours of lecture and two hours of laboratory per week.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

HIST 305 - The American West

3 Credit(s)

Historical survey of the Indian-, Hispanic-, and English-speaking groups of the West. Emphasis is on the frontier period.

HIST 320 - History of American Women

3 Credit(s)

This course examines the role of women in American History with special emphasis on how the story of women is told by historians over time. It examines not only the lives of many famous white women, but also the experience of women from various ethnicities and economic backgrounds. In addressing how Americans construct their understanding of women's lives in the U.S., the course will also reassess how focusing on women's lives might alter one's understanding of the broader patterns and interpretations of American History.

HIST 328 - Chicano History

3 Credit(s)

A survey of the historical development of the character, economy, social structure, politics, culture, and ideas of the Spanish-speaking people of Mexican descent in the U.S. from settlement until present, with particular attention given to the San Luis Valley.

HIST 355 - Latin America to 1830

3 Credit(s)

A survey of the economic, political, and social dimensions of the colonial system. Themes include the pre-Columbian civilizations of the Americas, the imposition of European rule, the place of Latin America in the emerging Atlantic economy, and the independence movements of the early 19th century. Major emphasis will be given to the "core" areas of Mexico, Peru, and Northeastern Brazil, but other regions will also be considered.

HIST 356 - Latin America Since 1830

3 Credit(s)

This course will examine the evolution of Latin America from the aftermath of independence to the present. Major themes include: the incorporation of Latin America into the global economy, the effect of the export economy on the region's peasant populations, the building of national states, the fate of revolutionary struggles in the 20th century, and Latin America's "neocolonial" relationship with the United States.

HIST 357 - Mexico

3 Credit(s)

Historical survey of the social, intellectual, and political developments from the conquest to the present.

POLS 393 - Women, Politics, and Culture

3 Credit(s)

Interdisciplinary analysis of politics and culture. Course examines the role of gender in the political culture of the United States and selected societies in industrialized and developing nations. Of special interest to those wishing to pursue an interest in women's studies and/or cultural anthropology.

PSYC 315 - Multicultural Issues

3 Credit(s)

In this course, students will explore various components of a multicultural society and the impact of social and cultural forces on identity development and formation. The processes of acculturation and assimilation will be discussed. Students will also gain insight into their own cultural experiences in a pluralistic society.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

PSYC 360 - Psychology of Gender

3 Credit(s)

This course will examine gender development from a variety of theoretical approaches, including evolutionary, cognitive, social learning, and cross-cultural. Topics will include how gender influences thinking, communication, interpersonal relationships, education, work, and family.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

SOC 318 - Race, Class, and Gender

3 Credit(s)

The focus of this course is on the interrelated ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result and the dynamics of change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 320 - Marriages and Families

3 Credit(s)

This course will provide an overview of the family from a sociological perspective. The family is considered to be one of the most private and pervasive institutions in society. All of us have had contact with at least one family, and many of us will be involved in several different families during our lifetime. Our experiences point to the numerous transformations in family life. To obtain a better understanding of these changes, recent sociological research and data on the family will be utilized in this course. In addition to examining the history of the family, the course will study the contemporary family and its diversity. The course will examine traditional marriage/family arrangements and alternative processes of mate selection and family formation. Finally, the course will examine parenting, the relationship between work and family, divorce and reconstituted families.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 419 - Gender and Society

3 Credit(s)

The aim of the course is for students to become familiar with the continuing differences and inequalities between women and men in the contemporary United States, and to begin to explain why and how they occur through a sociological lens. Understanding gender as it relates to other social identities (for example, race, class and sexuality) is an important organizing framework of the course. Students will learn about the gendered arrangements in a variety of social contexts such as education, the media, work and the economy, and the family.

Note

- Students must successfully complete Senior Assessment Procedures.

- Students may opt to complete the B.A. in HAPS at an accelerated pace to complete the degree in 3 years. Students desiring this option should contact an HAPS advisor.

Bachelor of Arts in HAPS, History Emphasis

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

Specific courses required for this degree:

Completion of Six Credits of World History

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

Completion of the Following Core Courses

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

HGP 471 - Senior Seminar

3 Credit(s)

This course is designed to be the academic capstone experience for all students who have majored in History/Government. All seminar members will participate in the discussion of the assigned reading material. Each student will write a paper that reflects the student's mastery of library usage, research methodology, breadth of knowledge, and writing ability. The students will give oral presentations of their papers to the members of the Seminar. All students enrolled in the Senior Seminar will also write their Senior Comprehensive Examinations as part of the requirement for all History/Government majors. The Seminar topic will be chosen by the instructor but sufficient methodological approaches will be explored to accommodate the interests of students from either a History or Government emphasis.

Successful Completion of Senior Assessment Procedures

Completion of at Least Four Courses (12 Credit Hours)

from each of the following two fields.

Europe and Latin America-

HIST 328 - Chicano History

3 Credit(s)

A survey of the historical development of the character, economy, social structure, politics, culture, and ideas of the Spanish-speaking people of Mexican descent in the U.S. from settlement until present, with particular attention given to the San Luis Valley.

HIST 330 - The Middle Ages

3 Credit(s)

A survey of the development of European civilization from the decline of the Roman Empire to the Italian Renaissance.

HIST 331 - Renaissance and Reformation

3 Credit(s)

A survey of European civilization from the end of the Middle Ages through the Renaissance and Reformations, coverage of Catholic Counter-reformation as well as the Protestant Reformation, with special emphasis on culture, religion, art, politics, science, and social history.

HIST 334 - French Revolution and Napoleon

3 Credit(s)

An examination of the many complex causes, effects, and lessons of the French Revolution, including daily life, the Estates, politics, economics and the absolute monarchy in Old Regime France, the onset of the Revolution, Napoleon and his empire.

HIST 346 - Imperial Spain

3 Credit(s)

This course examines Spanish history from 1700 to the end of the twentieth century, devoting special attention to the role of Spain in Europe and the construction of colonies in Africa and Asia in addition to the Americas.

HIST 355 - Latin America to 1830

3 Credit(s)

A survey of the economic, political, and social dimensions of the colonial system. Themes include the pre-Columbian civilizations of the Americas, the imposition of European rule, the place of Latin America in the emerging Atlantic economy, and the independence movements of the early 19th century. Major emphasis will be given to the "core" areas of Mexico, Peru, and Northeastern Brazil, but other regions will also be considered.

HIST 356 - Latin America Since 1830

3 Credit(s)

This course will examine the evolution of Latin America from the aftermath of independence to the present. Major themes include: the incorporation of Latin America into the global economy, the effect of the export economy on the region's peasant populations, the building of national states, the fate of revolutionary struggles in the 20th century, and Latin America's "neocolonial" relationship with the United States.

HIST 357 - Mexico

3 Credit(s)

Historical survey of the social, intellectual, and political developments from the conquest to the present.

HIST 432 - Age of Revolutions

3 Credit(s)

This course will serve as a study of the greater Atlantic world between 1750 and 1850 with a major focus on the late Enlightenment and the birth of liberalism, nationalism, and romanticism in trans-Atlantic and revolutionary contexts. It will devote special attention to major political and social revolutions. Additionally, the course will consider the importance of the late Scientific Revolution, the abolition of African slavery, and the early Industrial Revolution.

HIST 433 - Industry and Empire

3 Credit(s)

This course will serve as a study of the late nineteenth century to the start of World War I. It will devote special attention to the rise of industrial Europe and the expansion of European imperialism in Africa and Asia. Additionally, the course will consider the importance of the Darwinian Revolution and modernism in several scholarly fields.

HIST 434 - Twentieth Century Europe

3 Credit(s)

This course examines how the relationship of Europe and the world has been transformed, whether a new United States of Europe is emerging, or whether Europe is collapsing into ethnic nationalism. Current materials available through the Internet will be used in this course.

HIST 435 - History of Nazism and Fascism

3 Credit(s)

This course will survey the history of Italian Fascism and Nazism in Germany from the end of the First World War to 1945.

POLS 468 - U.S.-Latin American Relations

3 Credit(s)

This course will examine U.S.-Latin American Relations from the Monroe doctrine to the Present. It will explore recent developments in U.S.-Latin American relations, particularly the growing interdependence and the impact of the end of the cold war.

United States-

HIST 301 - Colorado History

3 Credit(s)

The development of Colorado from prehistoric times to the present.

HIST 305 - The American West

3 Credit(s)

Historical survey of the Indian-, Hispanic-, and English-speaking groups of the West. Emphasis is on the frontier period.

HIST 316 - American Revolution & Federalist Era

3 Credit(s)

A comprehensive study of the period from 1763 to 1801, with particular attention given to the American Revolution, the Confederation, the Constitutional Convention, and the administrations of Presidents Washington and Adams.

HIST 320 - History of American Women

3 Credit(s)

This course examines the role of women in American History with special emphasis on how the story of women is told by historians over time. It examines not only the lives of many famous white women, but also the experience of women from various ethnicities and economic backgrounds. In addressing how Americans construct their understanding of women's lives in the U.S., the course will also reassess how focusing on women's lives might alter one's understanding of the broader patterns and interpretations of American History.

HIST 350 - History of Sport in America

3 Credit(s)

This course covers the development of sports and their significance in American life from colonial period to present. It is designed both to supplement student's understanding of American History and to examine the role that sports have played in shaping contemporary society. Close attention will be paid to the context of sports development, especially the economic and social environment. Topics will include a study of the role of industrial society in fostering sports, and the changing gender structure of sports.

HIST 363 - Civil War and Reconstruction

3 Credit(s)

A study of the ante-bellum South, sectional discord, armed conflict, and reconstruction of the union.

HIST 426 - US in the Era of World Wars

3 Credit(s)

A study of the diplomatic, social, and political developments of the first half of the twentieth century, with emphasis on the impact of immigration, urbanization, technology, and America's increasing involvement in world affairs through World War II.

HIST 427 - The Sixties Era

3 Credit(s)

This course is a study of U.S. history from World War II through the 1980s, with emphasis on the Cold War, the Vietnam War, and social change in the 1960s era.

POLS 429 - Constitutional Law / Criminal Justice

3 Credit(s)

This course examines Supreme Court decisions and doctrine in areas such as search and seizure, the exclusionary rule, interrogations, right to counsel, cruel and unusual punishment and other issues in criminal justice and the courts.

POLS 430 - Constitutional Law: Civil Liberties

3 Credit(s)

This course examines Supreme Court decisions and doctrine in areas such as speech, assembly, religion, privacy, press, civil rights, and election law.

Note:

Students may opt to complete the B.A. in HAPS at an accelerated pace to complete the degree in 3 years.

Students desiring this option should contact an HAPS advisor

Bachelor of Arts in HAPS, Political Science Emphasis

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

Courses Required for this Degree

Completion of Six Credits of World History

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

Completion of the Following Core Courses

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HGP 471 - Senior Seminar

3 Credit(s)

This course is designed to be the academic capstone experience for all students who have majored in History/Government. All seminar members will participate in the discussion of the assigned reading material. Each student will write a paper that reflects the student's mastery of library usage, research methodology, breadth of knowledge, and writing ability. The students will give oral presentations of their papers to the members of the Seminar. All students enrolled in the Senior Seminar will also write their Senior Comprehensive Examinations as part of the requirement for all History/Government majors. The Seminar topic will be chosen by the instructor but sufficient methodological approaches will be explored to accommodate the interests of students from either a History or Government emphasis.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

Completion of 24 Credits with at least 3 credits from each of the following 4 Subfields

Subfield 1 - Political Theory

POLS 436 - American Thought

3 Credit(s)

The interaction of religious ideas, practices, and aspirations in United States History, 1607 to Present. (Same as PHIL 436)

POLS 466 - Ancient Political Theory

3 Credit(s)

This course is of interest to history/government students who want a better understanding of ancient philosophy and its relationship to political thought.

POLS 467 - Modern Political Theory

3 Credit(s)

This course is of interest to history/government students who want a better understanding of modern philosophy and its relationship to political thought.

POLS 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

OR

POLS 479 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

Subfield 2 - American Politics

POLS 303 - Current Political Issues

3 Credit(s)

This course examines current controversial political issues such as affirmative action, same sex marriage, abortion, capital punishment, cloning, pornography, censorship, religion in public schools, and immigration.

POLS 306 - Campaigns and Elections

3 Credit(s)

This course is a study of elections and campaigns in the US. It focuses on the design and implementation of political campaigns, the behavior of different voter groups, and potential reforms of the electoral system.

POLS 351 - Congress / Presidency / Public Policy

3 Credit(s)

This course examines Congress, the legislative process, presidency, and how both influence the policy-making process, with emphasis on specific policies such as healthcare, education, crime, housing, and social welfare.

POLS 429 - Constitutional Law / Criminal Justice

3 Credit(s)

This course examines Supreme Court decisions and doctrine in areas such as search and seizure, the exclusionary rule, interrogations, right to counsel, cruel and unusual punishment and other issues in criminal justice and the courts.

POLS 430 - Constitutional Law: Civil Liberties

3 Credit(s)

This course examines Supreme Court decisions and doctrine in areas such as speech, assembly, religion, privacy, press, civil rights, and election law.

POLS 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

OR

POLS 479 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

Subfield 3 - Comparative Politics

POLS 307 - Introduction to World Governments

3 Credit(s)

This course is specifically designed to prepare education majors for the licensing exam. It is also of interest to history/political science students who want a better understanding of institutions and systems.

POLS 309 - Politics of the Middle East

3 Credit(s)

This course explores the histories, societies and politics of various countries of the Middle East and North Africa (MENA). Specific issues we will address throughout the semester include: Islam and politics; History, political culture and institutional politics; Intra-regional conflict; Democracy and human rights; Womens issues.

POLS 325 - Political Mvmnts/Latin America

3 Credit(s)

This course broadens students' understanding of Latin America by introducing them to their political aspirations and modes of organization.

POLS 393 - Women, Politics, and Culture

3 Credit(s)

Interdisciplinary analysis of politics and culture. Course examines the role of gender in the political culture of the

United States and selected societies in industrialized and developing nations. Of special interest to those wishing to pursue an interest in women's studies and/or cultural anthropology.

POLS 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

OR

POLS 479 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

Subfield 4 - World Politics

POLS 300 - Introduction to World Politics

3 Credit(s)

This course is of interest to students who want a better understanding of the international political arena. The course also helps students understand contemporary world affairs.

POLS 301 - Change Dynamics / International Relations

3 Credit(s)

This course is intended to supplement POLS 300, but can stand on its own. It introduces students to specific topics in the international arena.

POLS 380 - Model United Nations

3 Credit(s)

This course explores international diplomacy and the inner workings of the United Nations. It also provides a hands-on approach to current global debates on issues such as violent conflict, human rights and poverty.

POLS 468 - U.S.-Latin American Relations

3 Credit(s)

This course will examine U.S.-Latin American Relations from the Monroe doctrine to the Present. It will explore recent developments in U.S.-Latin American relations, particularly the growing interdependence and the impact of the end of the cold war.

POLS 480 - International Law

3 Credit(s)

This course explores the key terms and concepts of International Law, from its historical roots to present day institutions, legal cases, and controversies. Many of the key terms and concepts of International Law are the same or similar to those of the U.S. legal system, thereby helping to prepare students who wish to pursue a domestic law degree.

Prerequisite(s):

POLS 380

Co-requisite(s): POLS 380

POLS 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

OR

POLS 479 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

Note

Successful completion of Senior Assessment Procedures is required.

Students may opt to complete the B.A. in HAPS at an accelerated pace to complete the degree in 3 years. Students desiring this option should contact an HAPS advisor.

Bachelor of Arts in HAPS, Social Studies Emphasis with Secondary Teacher Licensure

Go to: Bachelor of Arts, Secondary Education Licensure

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

Complete All Core Courses (18 credits)

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

GSCI 300 - World Geography

3 Credit(s)

The course examines human or cultural geography with a global perspective. It uses a topic centered approach. It is intended to give the student an appreciation of the interaction between physical geography, environment, and cultural practices.

HGP 471 - Senior Seminar

3 Credit(s)

This course is designed to be the academic capstone experience for all students who have majored in History/Government. All seminar members will participate in the discussion of the assigned reading material. Each student will write a paper that reflects the student's mastery of library usage, research methodology, breadth of knowledge, and writing ability. The students will give oral presentations of their papers to the members of the Seminar. All students enrolled in the Senior Seminar will also write their Senior Comprehensive Examinations as part of the requirement for all History/Government majors. The Seminar topic will be chosen by the instructor but sufficient methodological approaches will be explored to accommodate the interests of students from either a History or Government emphasis.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

Complete 6 Credits of World Civilization Requirements

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation

in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

Complete 1 Social Science Course (3 Credits)

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

SOC 318 - Race, Class, and Gender

3 Credit(s)

The focus of this course is on the interrelated ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result and the dynamics of change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

Complete one Comparative Government Course (3 Credits)

POLS 307 - Introduction to World Governments

3 Credit(s)

This course is specifically designed to prepare education majors for the licensing exam. It is also of interest to history/political science students who want a better understanding of institutions and systems.

POLS 309 - Politics of the Middle East

3 Credit(s)

This course explores the histories, societies and politics of various countries of the Middle East and North Africa (MENA). Specific issues we will address throughout the semester include: Islam and politics; History, political culture and institutional politics; Intra-regional conflict; Democracy and human rights; Womens issues.

POLS 325 - Political Mvmnts/Latin America

3 Credit(s)

This course broadens students' understanding of Latin America by introducing them to their political aspirations and modes of organization.

Complete Social Studies Depth and Content Courses

15 hours of ANTH, ECON, HIST, POLS, PSYC. At least two 300-400 level HIST and POLS courses.

Note

- All students seeking social studies licensure are encouraged to seek competency in a foreign language.
- Successful Degree completion requires completion of Senior Assessment Procedures.
- Students may opt to complete the B.A. in HAPS at an accelerated pace to complete the degree in 3 years. Students desiring this option should contact an HAPS advisor.

Plus Additional Secondary Education Licensure Requirements from the School of Education

Bachelor of Arts, Secondary Education Licensure

Bachelor of Arts in Interdisciplinary Studies, Food Studies - Business, Economics, and Policy Emphasis

Go to: Food Studies Department

Food Studies Core Requirements

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BUS 105 - Introduction to Agribusiness

3 Credit(s)

An introductory course designed to provide students with a basic background in agribusiness issues and practices to give them the foundation to be successful in upper level agribusiness courses and meet expectations for basic knowledge in agribusiness relationships.

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

FOOD 100 - Perspectives on Food

3 Credit(s)

This course is an exploration of the multitude of roles that food plays in the world. Each class will consist of a discussion of food through a different lens, such as culture, history, economy, nutrition, power, medicine, and ecology. The course will be highly discussion based and students will be challenged to explore their own personal relationship with food. Grades will be determined based on class participation, weekly reading reflections, a blog-post, and a food sharing presentation in which you will explore the history, culture and personal meaning of a specific dish.

FOOD 200 - U.S. Food Systems

3 Credit(s)

This course will provide an overview of the U.S. Food System, including the policy, agricultural, and cultural history that has led us to the food system that we have today. The course will include the following topics: the role of policy in shaping the food system; the history and current state of federal governmental food and agricultural programs; food as an industry (production, processing, distribution, sales, advertising, and consumer behavior). We will explore the implication of our current system for health, communities, and the environment.

FOOD 250 - Community Food Systems

3 Credit(s)

In this course, students will study local food systems, using the San Luis Valley as a case study for a broader understanding of the role of local food systems in community vitality and health. We will explore: the pathways of food from the farm, to the distributor, to consumer, and finally as waste; inequalities in food access within communities; strategies for creating a resilient and sustainable local food system; and the major players in the local food system. Students will be provided with many examples of organizations using creative solutions to food system problems.

Prerequisite(s):

FOOD 100 Minimum Grade: C-
AND

FOOD 200 Minimum Grade: C-

FOOD 300 - Food Lab I

4 Credit(s)

This course prepares students for careers in which they will be working with food and covers basic knowledge and skills related to food safety, growing and harvesting food, procuring food, preparing food, and planning menus and educational content. We will spend time working in the Farm Park, helping with tasks and harvesting. In the classroom and kitchen, we will learn basic food preparation, seasonal and local foods, nutritional evaluation of foods, procurement, menu planning, and nutrition education.

FOOD 350 - Food Lab II

4 Credit(s)

Food lab is a hands-on upper level course for Food Studies majors to learn about food from Farm to Table. Food Lab I & II should be taken in consecutive Spring and Fall semesters, as the Food Lab I students will ideally plant a garden to be harvested by the students in Food Lab II, the following fall. Even if not possible the courses will still be building upon each other. In Food Lab II, students in the class will work together to take care of the garden and harvest crops using sustainable practices. If this is not possible, students will still learn various skills for preparing the land for the harvesting season, taking care of plants, and learning various gardening skills through experiences working at other farms. Grades will be determined by attendance and participation, as well as a midterm reflection and a final project, paper, or exam. Students will also begin learning cooking techniques and styles, getting to practice and try food and skills from different parts of the world.

Prerequisite(s):

FOOD 300 Minimum Grade: C-

FOOD 400 - Food Studies Internship I

3 Credit(s)

This is the first internship for the Food Studies interdisciplinary degree. This course does not include regular classroom instruction, but is an internship in a food-related organization. The purpose of this internship is for the student to learn how the organization functions, its mission and principles, and to provide assistance to the organization.

Prerequisite(s):

FOOD 250 Minimum Grade: C-

FOOD 450 - Food Studies Internship II

3 Credit(s)

This is the second internship for the Food Studies interdisciplinary degree. This course does not include regular classroom instruction, but is an internship in a food-related organization. The second semester of internship must include a project for which the student has primary responsibility, to be determined by the internship advisor, in collaboration with the student. The second internship may be completed at the same organization as the first internship or with a new organization.

Prerequisite(s):

FOOD 400 Minimum Grade: C-

FOOD 498 - Food Studies Capstone

3 Credit(s)

This is the capstone course for the Food Studies interdisciplinary degree. This course includes regularly scheduled meetings with the instructor and significant independent work on a self-guided project, chosen by the student, in collaboration with their advisor.

Prerequisite(s):

FOOD 400 Minimum Grade: C-

KIN 120 - Concepts in Wellness

3 Credit(s)

In this course, students will learn about the various dimensions of wellness, assess their own health status, and design interventions to improve personal health through lecture, video, laboratory experiences, and physical activities. This course will also provide students with the information necessary to make evidence-based decisions regarding personal wellness and to understand health disparities among diverse populations. There is a physical activity component to this course.

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

Statistics for Food Studies (choose 1 course)

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

KIN 360 - Statistics in Kinesiology

3 Credit(s)

This course is designed to introduce students to statistical theories, data collection procedures, techniques for analysis and interpretation of data in Kinesiology.

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

SOC 311 - Social Statistics

4 Credit(s)

This course presents a general overview of the statistical methods most commonly used in sociology and the social sciences. As a laboratory component, students will become proficient in SPSS, a computer program designed to aid statistical analysis. These skills will enable the student to read popular applications of statistics in the media with a critical eye; assess the use of statistics in the professional sociological literature; and use statistical tools to answer the sociological questions of interest.

Prerequisite(s):

SOC 255 Minimum Grade: C-

AND

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Business, Economics, and Policy Emphasis (15 credits)

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

OR

BUS 345 - Advertising

3 Credit(s)

Discusses the history, purposes, and regulations of the advertising industry. Topics covered include creative principles, media advantages and disadvantages, media planning, regulation of advertising, and coordination with other promotion activities.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 488 - Agricultural Policy and Farm Bill

3 Credit(s)

Development and implementation of public policy in agriculture, implications of international competition and trade, and development and interpretation of argument in policy development.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

BUS 499 - Individual Studies

1 to 5 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

Bachelor of Arts in Interdisciplinary Studies, Food Studies - Health, Exercise and Nutrition Emphasis

Go to: Food Studies Department

Food Studies Core Requirements

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BUS 105 - Introduction to Agribusiness

3 Credit(s)

An introductory course designed to provide students with a basic background in agribusiness issues and practices to give them the foundation to be successful in upper level agribusiness courses and meet expectations for basic knowledge in agribusiness relationships.

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

FOOD 100 - Perspectives on Food

3 Credit(s)

This course is an exploration of the multitude of roles that food plays in the world. Each class will consist of a discussion of food through a different lens, such as culture, history, economy, nutrition, power, medicine, and ecology. The course will be highly discussion based and students will be challenged to explore their own personal relationship with food. Grades will be determined based on class participation, weekly reading reflections, a blog-post, and a food sharing presentation in which you will explore the history, culture and personal meaning of a specific dish.

FOOD 200 - U.S. Food Systems

3 Credit(s)

This course will provide an overview of the U.S. Food System, including the policy, agricultural, and cultural history that has led us to the food system that we have today. The course will include the following topics: the role of policy in shaping the food system; the history and current state of federal governmental food and agricultural programs; food as an industry (production, processing, distribution, sales, advertising, and consumer behavior). We will explore the implication of our current system for health, communities, and the environment.

FOOD 250 - Community Food Systems

3 Credit(s)

In this course, students will study local food systems, using the San Luis Valley as a case study for a broader understanding of the role of local food systems in community vitality and health. We will explore: the pathways of food from the farm, to the distributor, to consumer, and finally as waste; inequalities in food access within communities; strategies for creating a resilient and sustainable local food system; and the major players in the local food system. Students will be provided with many examples of organizations using creative solutions to food system problems.

Prerequisite(s):

FOOD 100 Minimum Grade: C-

AND

FOOD 200 Minimum Grade: C-

FOOD 300 - Food Lab I

4 Credit(s)

This course prepares students for careers in which they will be working with food and covers basic knowledge and skills related to food safety, growing and harvesting food, procuring food, preparing food, and planning menus and educational content. We will spend time working in the Farm Park, helping with tasks and harvesting. In the classroom

and kitchen, we will learn basic food preparation, seasonal and local foods, nutritional evaluation of foods, procurement, menu planning, and nutrition education.

FOOD 350 - Food Lab II

4 Credit(s)

Food lab is a hands-on upper level course for Food Studies majors to learn about food from Farm to Table. Food Lab I & II should be taken in consecutive Spring and Fall semesters, as the Food Lab I students will ideally plant a garden to be harvested by the students in Food Lab II, the following fall. Even if not possible the courses will still be building upon each other. In Food Lab II, students in the class will work together to take care of the garden and harvest crops using sustainable practices. If this is not possible, students will still learn various skills for preparing the land for the harvesting season, taking care of plants, and learning various gardening skills through experiences working at other farms. Grades will be determined by attendance and participation, as well as a midterm reflection and a final project, paper, or exam. Students will also begin learning cooking techniques and styles, getting to practice and try food and skills from different parts of the world.

Prerequisite(s):

FOOD 300 Minimum Grade: C-

FOOD 400 - Food Studies Internship I

3 Credit(s)

This is the first internship for the Food Studies interdisciplinary degree. This course does not include regular classroom instruction, but is an internship in a food-related organization. The purpose of this internship is for the student to learn how the organization functions, its mission and principles, and to provide assistance to the organization.

Prerequisite(s):

FOOD 250 Minimum Grade: C-

FOOD 450 - Food Studies Internship II

3 Credit(s)

This is the second internship for the Food Studies interdisciplinary degree. This course does not include regular classroom instruction, but is an internship in a food-related organization. The second semester of internship must include a project for which the student has primary responsibility, to be determined by the internship advisor, in collaboration with the student. The second internship may be completed at the same organization as the first internship or with a new organization.

Prerequisite(s):

FOOD 400 Minimum Grade: C-

FOOD 498 - Food Studies Capstone

3 Credit(s)

This is the capstone course for the Food Studies interdisciplinary degree. This course includes regularly scheduled meetings with the instructor and significant independent work on a self-guided project, chosen by the student, in collaboration with their advisor.

Prerequisite(s):

FOOD 400 Minimum Grade: C-

KIN 120 - Concepts in Wellness

3 Credit(s)

In this course, students will learn about the various dimensions of wellness, assess their own health status, and design interventions to improve personal health through lecture, video, laboratory experiences, and physical activities. This course will also provide students with the information necessary to make evidence-based decisions regarding personal wellness and to understand health disparities among diverse populations. There is a physical activity component to this course.

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

Statistics for Food Studies (choose 1 course)

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

KIN 360 - Statistics in Kinesiology

3 Credit(s)

This course is designed to introduce students to statistical theories, data collection procedures, techniques for analysis and interpretation of data in Kinesiology.

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

SOC 311 - Social Statistics

4 Credit(s)

This course presents a general overview of the statistical methods most commonly used in sociology and the social sciences. As a laboratory component, students will become proficient in SPSS, a computer program designed to aid statistical analysis. These skills will enable the student to read popular applications of statistics in the media with a critical eye; assess the use of statistics in the professional sociological literature; and use statistical tools to answer the sociological questions of interest.

Prerequisite(s):

SOC 255 Minimum Grade: C-
AND

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Health, Exercise and Nutrition Emphasis

BIOL 112 - Human Anatomy

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure of the human body. Typically taken by HPPE students. Topics include gross anatomy, histology, the relationship between structure and function, and anatomical changes associated with disease processes. Course includes three hours of lecture and two hours of laboratory per week.

OR

BIOL 205 - Human Anatomy and Physiology I

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The integumentary, skeletal, muscular, and nervous systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Test - Minimum Score: 3 **OR** MATH 97 Minimum Grade: S or S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T and SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18 **OR** ENG 96 Minimum Grade: S or T

KIN 301 - Sport and Fitness Nutrition

3 Credit(s)

This course will present a review of basic nutrition. The course will also explore the areas of sport, exercise and fitness nutrition, supplementation, sport drug use and abuse, weight loss diets, eating disorders, weight gain nutrition, body composition, and the metabolic nutritional requirements of various sports and fitness activities.

Prerequisite(s):

KIN-329 Minimum Grade: C- OR T

AND

BIOL-112 Minimum Grade: C- OR T

OR

BIOL-205 Minimum Grade: C- OR T

KIN 302 - Sport Psychology

3 Credit(s)

Sport psychology is primarily concerned with the interaction between psychological variables and participation in sport and exercise. This course will review this interaction by addressing variables that affect the individual athlete, influence sport and exercise environments, shape group processes, enhance health and wellbeing, improve performance, and facilitate psychological growth and development in sport participants from diverse populations.

OR

KIN 427 - Coaching Tech Strength / Conditioning

3 Credit(s)

This course is designed to provide information relative to the basic foundation of coaching sports conditioning including muscle physiology, bioenergetics, training methodology, exercise technique, program design, and facility management. Students will be given the opportunity to develop a general strength coaching philosophy and to demonstrate their knowledge relative to proper lifting techniques demonstrate their knowledge relative to proper lifting and training procedures.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T

KIN 329 - Exercise Physiology

3 Credit(s)

This course presents an introduction and overview of the physiological bases of physical education, sport, and athletics. The effects of exercise on the various systems will be considered. Practical application of exercise science to physical fitness and athletic performance will be emphasized.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T

OR

BIOL 205 Minimum Grade: C- OR T

Co-requisite(s): KIN-329L

KIN 329L - Exercise Physiology Lab

1 Credit(s)

This exercise physiology lab class is designed to supplement the exercise physiology lecture course. This course will

provide students with a hands-on experience in which they can apply concepts learned in the classroom to practice in the human performance laboratory and field of exercise, fitness, and sport.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

Co-requisite(s): KIN-329

KIN 380 - Diversity, Equity Sport, and Society

3 Credit(s)

This course has a two-fold purpose: first, it is designed to provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask questions and think critically about sport as a part of society. This course will explore issues around diversity, equity and inclusion in sport and society.

Bachelor of Arts in Interdisciplinary Studies, Food Studies - Sociology and Social Justice Emphasis

Go to: Food Studies Department

Food Studies Core Requirements

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BUS 105 - Introduction to Agribusiness

3 Credit(s)

An introductory course designed to provide students with a basic background in agribusiness issues and practices to give them the foundation to be successful in upper level agribusiness courses and meet expectations for basic knowledge in agribusiness relationships.

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and

controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

FOOD 100 - Perspectives on Food

3 Credit(s)

This course is an exploration of the multitude of roles that food plays in the world. Each class will consist of a discussion of food through a different lens, such as culture, history, economy, nutrition, power, medicine, and ecology. The course will be highly discussion based and students will be challenged to explore their own personal relationship with food. Grades will be determined based on class participation, weekly reading reflections, a blog-post, and a food sharing presentation in which you will explore the history, culture and personal meaning of a specific dish.

FOOD 200 - U.S. Food Systems

3 Credit(s)

This course will provide an overview of the U.S. Food System, including the policy, agricultural, and cultural history that has led us to the food system that we have today. The course will include the following topics: the role of policy in shaping the food system; the history and current state of federal governmental food and agricultural programs; food as an industry (production, processing, distribution, sales, advertising, and consumer behavior). We will explore the implication of our current system for health, communities, and the environment.

FOOD 250 - Community Food Systems

3 Credit(s)

In this course, students will study local food systems, using the San Luis Valley as a case study for a broader understanding of the role of local food systems in community vitality and health. We will explore: the pathways of food from the farm, to the distributor, to consumer, and finally as waste; inequalities in food access within communities; strategies for creating a resilient and sustainable local food system; and the major players in the local food system.

Students will be provided with many examples of organizations using creative solutions to food system problems.

Prerequisite(s):

FOOD 100 Minimum Grade: C-
AND

FOOD 200 Minimum Grade: C-

FOOD 300 - Food Lab I

4 Credit(s)

This course prepares students for careers in which they will be working with food and covers basic knowledge and skills related to food safety, growing and harvesting food, procuring food, preparing food, and planning menus and educational content. We will spend time working in the Farm Park, helping with tasks and harvesting. In the classroom and kitchen, we will learn basic food preparation, seasonal and local foods, nutritional evaluation of foods, procurement, menu planning, and nutrition education.

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4 Credit(s)

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Prerequisite(s):

FOOD 300 Minimum Grade: C-

FOOD 400 - Food Studies Internship I

3 Credit(s)

This is the first internship for the Food Studies interdisciplinary degree. This course does not include regular classroom instruction, but is an internship in a food-related organization. The purpose of this internship is for the student to learn how the organization functions, its mission and principles, and to provide assistance to the organization.

Prerequisite(s):

FOOD 250 Minimum Grade: C-

FOOD 450 - Food Studies Internship II

3 Credit(s)

This is the second internship for the Food Studies interdisciplinary degree. This course does not include regular classroom instruction, but is an internship in a food-related organization. The second semester of internship must

include a project for which the student has primary responsibility, to be determined by the internship advisor, in collaboration with the student. The second internship may be completed at the same organization as the first internship or with a new organization.

Prerequisite(s):

FOOD 400 Minimum Grade: C-

FOOD 498 - Food Studies Capstone

3 Credit(s)

This is the capstone course for the Food Studies interdisciplinary degree. This course includes regularly scheduled meetings with the instructor and significant independent work on a self-guided project, chosen by the student, in collaboration with their advisor.

Prerequisite(s):

FOOD 400 Minimum Grade: C-

KIN 120 - Concepts in Wellness

3 Credit(s)

In this course, students will learn about the various dimensions of wellness, assess their own health status, and design interventions to improve personal health through lecture, video, laboratory experiences, and physical activities. This course will also provide students with the information necessary to make evidence-based decisions regarding personal wellness and to understand health disparities among diverse populations. There is a physical activity component to this course.

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

Statistics for Food Studies (choose 1 course)

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

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3 Credit(s)

This course is designed to introduce students to statistical theories, data collection procedures, techniques for analysis and interpretation of data in Kinesiology.

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

SOC 311 - Social Statistics

4 Credit(s)

This course presents a general overview of the statistical methods most commonly used in sociology and the social sciences. As a laboratory component, students will become proficient in SPSS, a computer program designed to aid statistical analysis. These skills will enable the student to read popular applications of statistics in the media with a critical eye; assess the use of statistics in the professional sociological literature; and use statistical tools to answer the sociological questions of interest.

Prerequisite(s):

SOC 255 Minimum Grade: C-

AND

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Sociology and Social Justice Emphasis

SOC 251 - Social Problems

3 Credit(s)

This course is designed to provide the student with a survey of selected contemporary social problems. Social problems addressed in the class may include poverty, addiction and substance abuse, mental health, violence with a focus on family violence, crime, teen sexuality and pregnancy, and health care issues. The causes, severity, and consequences of the selected social problems are explored. In addition, strategies for alleviating social problems are presented.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

AND

LS 225 Minimum Grade: C- OR T

SOC 352 - Social Work Practices

3 Credit(s)

This course is an introduction to the nuts-and-bolts of social work practice. The course is designed with several general objectives in mind: (1) to familiarize the student with specific techniques of social work such as the person-in-environment approach and case management, (2) to provide a fundamental understanding of roles of community and family in social work practice, (3) to explore the needs of selected special populations in the community, (4) to identify the biological, psychological, and social influences on development and behavior across the life cycle, and (5) to introduce the student to fundamental social work practice skills.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

AND

SOC 251 Minimum Grade: C- OR T

SOC 365 - Race and Ethnicity in the U.S.

3 Credit(s)

This course provides a sociological approach to race and ethnic relations in the U.S. today. This course introduces the basic sociological theories and perspectives related to the study of race and ethnicity, the histories, and present status of different racial and ethnic groups in the United States and raises questions about continuing racial discrimination and inequality in our society. Issues of defining race, racial identity, interpersonal and institutional discrimination, segregation, and affirmative action (among others) are explored.

SOC 370 - Poverty and Wealth

3 Credit(s)

This course examines the historical and socio-cultural factors which influence the creation and maintenance of poverty and wealth. Emphasis will be on structural factors and theoretical explanations of poverty and inequality. This course will also focus on the implications for policy and social programs aimed at poverty and other social class issues. In addition, there will be exploration of systems of power, privilege, and domination that are central to the American social structure. Finally, the issues of empowerment, resistance, and solutions to social inequality will be assessed.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

SOC 251 Minimum Grade: C- OR T

SOC 470 - Social and Public Programs

3 Credit(s)

This course analyzes the historical development, current content, and adequacy of social welfare policies in the United States. Specific policy areas to be discussed include income maintenance (including social insurance and public assistance), mental health, health care, and aging.

Prerequisite(s):

SOC 352 Minimum Grade: C- OR T

Bachelor of Arts in Interdisciplinary Studies, Food Studies - Sustainability Emphasis

Go to: Food Studies Department

Food Studies Core Requirements

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the

scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

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BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

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BUS 208 Minimum Grade: C- OR T

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BUS 304 Minimum Grade: C- OR T

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BUS 361 Minimum Grade: C- OR T

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3 Credit(s)

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Prerequisite(s):

FOOD 100 Minimum Grade: C-
AND

FOOD 200 Minimum Grade: C-

FOOD 300 - Food Lab I

4 Credit(s)

This course prepares students for careers in which they will be working with food and covers basic knowledge and skills related to food safety, growing and harvesting food, procuring food, preparing food, and planning menus and educational content. We will spend time working in the Farm Park, helping with tasks and harvesting. In the classroom and kitchen, we will learn basic food preparation, seasonal and local foods, nutritional evaluation of foods, procurement, menu planning, and nutrition education.

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Prerequisite(s):

FOOD 300 Minimum Grade: C-

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3 Credit(s)

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Prerequisite(s):

FOOD 250 Minimum Grade: C-

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3 Credit(s)

This is the second internship for the Food Studies interdisciplinary degree. This course does not include regular classroom instruction, but is an internship in a food-related organization. The second semester of internship must include a project for which the student has primary responsibility, to be determined by the internship advisor, in collaboration with the student. The second internship may be completed at the same organization as the first internship or with a new organization.

Prerequisite(s):

FOOD 400 Minimum Grade: C-

FOOD 498 - Food Studies Capstone

3 Credit(s)

This is the capstone course for the Food Studies interdisciplinary degree. This course includes regularly scheduled meetings with the instructor and significant independent work on a self-guided project, chosen by the student, in collaboration with their advisor.

Prerequisite(s):

FOOD 400 Minimum Grade: C-

KIN 120 - Concepts in Wellness

3 Credit(s)

In this course, students will learn about the various dimensions of wellness, assess their own health status, and design interventions to improve personal health through lecture, video, laboratory experiences, and physical activities. This course will also provide students with the information necessary to make evidence-based decisions regarding personal wellness and to understand health disparities among diverse populations. There is a physical activity component to this course.

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3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored

include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

Statistics for Food Studies (choose 1 course)

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

KIN 360 - Statistics in Kinesiology

3 Credit(s)

This course is designed to introduce students to statistical theories, data collection procedures, techniques for analysis and interpretation of data in Kinesiology.

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

SOC 311 - Social Statistics

4 Credit(s)

This course presents a general overview of the statistical methods most commonly used in sociology and the social sciences. As a laboratory component, students will become proficient in SPSS, a computer program designed to aid statistical analysis. These skills will enable the student to read popular applications of statistics in the media with a critical eye; assess the use of statistics in the professional sociological literature; and use statistical tools to answer the sociological questions of interest.

Prerequisite(s):

SOC 255 Minimum Grade: C-

AND

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Sustainability Emphasis (15 credits)

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

WATR 101 - Water Essentials: How Water Works

3 Credit(s)

This course is an introduction and overview of water in the West, from its basic chemical structure and physics as well as hydrology and water's role in nature to how water serves and is managed as a beneficial resource for people. This course introduces foundational concepts of water's functional properties, how humans have put water to work and how we have developed systems of water allocation, administration, and management, including an overview of core terminology, and fundamental principles of water management. The course will focus on the Western water environment and issues, with specific discussions on the application and administration of water in Colorado's Rio Grande Basin.

BIOL Elective OR WTR Elective with Approval

Plus a BIOL Elective OR WTR Elective with Approval

Bachelor of Arts in Interdisciplinary Studies, General Agriculture - Biology Emphasis

Go to: Interdisciplinary Studies

This degree is delivered in partnership with Colorado State University. Students will enroll in both ASU face to face classes and CSU online or hybrid courses. Upon successful completion of the degree program, students will have a well-built foundation not only in general education but also in a General Agriculture Biology Track.

Go to: General Agriculture Business Track

Faculty

Benita Brink, Ph.D.

Major Requirements (52-54 credits)

***Colorado State University Online Courses**

- HORT 100 - Horticultural Science **3 to 4 Credit(s) ***
OR
- SOCR 100 - General Crops **3 to 4 Credit(s) ***

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of

laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

- BSPM 201 - Weed Management and Control **3 Credit(s) ***

GSCI 201 - Introduction to Cartography and GIS

3 Credit(s)

This course will introduce students to the core concepts of Geographic Information Systems (GIS) and the importance and relevance of GIS in today's world. Students will learn what GIS is, what it is used for, and how to perform basic and core tasks involving GIS analysis. An objective is to help students develop the ability to think critically about cartographic processes and representations as well as develop their skills in creating maps. Students are expected to have basic computer proficiency prior to enrolling in this course.

OR

- SOCR 377 - GIS Systems in Agriculture **3 Credit(s) ***

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T

OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

- SOCR 240 - Soil Science **4 Credit(s) ***

OR

GSCI 330 - Nature and Properties of Soils

4 Credit(s)

This course analyzes soils as natural bodies and managed resources, focusing on impacts of landforms, hydrology, nutrients, and organisms on soils. The laboratory includes analysis of soil patterns, methods of sampling, and techniques of determining physical and chemical properties of soils. Course includes three hours of lecture and two hours of laboratory per week.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

- HORT 260 - Plant Propagation **4 Credit(s) ***
- HORT 310 - Greenhouse Management **3 Credit(s) ***

CHEM 321 - Organic Chemistry

4 Credit(s)

A study of the relationship between structure and reactivity of carbon-containing compounds.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 321L

CHEM 321L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 321. Laboratory time will be divided among techniques, preparation, and mechanistic studies.

Co-requisite(s): CHEM 321

- SOCR 350 - Soil Fertility & Management **4 Credit(s) ***
- SOCR 351 - Lab **4 Credit(s) ***

- BSPM 355A - Horticulture Pathology: General Pathology 3 Credit(s) **AND ***
- BSPM 355B - Horticulture Pathology: Turf & Ornamental Disease 3 Credit(s) **AND ***
- BSPM 355C - Horticulture Pathology: Vegetable & Greenhouse Disease **3 Credit(s) ***
- OR**
- BSPM 361 - Elements of Plant Pathology **3 Credit(s) ***

- HORT 368 - Landscape Irrigation & Water Conservation **2 to 3 Credit(s) ***
- OR**
- SOCR 370 - Irrigation Principles **2 to 3 Credit(s) ***

- SOCR 420 - Crop & Soil Management Systems I **3 Credit(s) AND ***
- SOCR 421 - Crop & Soil Management Systems II **3 Credit(s) ***
- OR**
- HORT 454 - Horticulture Crop Production & Management (Capstone) **1 Credit(s) ***

Biology Track Requirements

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

BIOL 321 - Genetics

3 Credit(s)

A study of Mendelian and molecular genetics of eukaryotes and prokaryotes. Discussions include basic Mendelian principles, meiosis/mitosis, linkage, gene expression, and molecular techniques. Course includes 3 hours of lecture and 1 hour of peer learning activities per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- **OR** T
OR

BIOL-210 Minimum Grade: C- **OR** T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

OR

CHEM-132 Minimum Grade: C- OR T

AND

CHEM-132L Minimum Grade: C- OR T

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

BIOL 332 - Evolution

3 Credit(s)

A study of the history and development of evolutionary theory. Consideration is given to evidence for and mechanisms of evolution from anatomical, developmental, geological, mathematical, and molecular perspectives. Credit or concurrent registration in BIOL 330 is recommended. This course includes 3 hours of lecture per week.

Prerequisite(s):

BIOL 209 Minimum Grade: C- OR T
AND

BIOL 210 Minimum Grade: C- OR T

BIOL 423 - Plant Physiology

4 Credit(s)

A study of the mechanisms of plant function throughout development from seeds through reproduction. This course includes consideration of metabolism (photosynthesis, respiration, mineral nutrition), water relations, gas exchange, and developmental growth in response to hormones. An integrated laboratory component requires an independently researched project. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 461 - Entomology

3 Credit(s)

Biology of insects with emphasis on anatomy, physiology, natural history, evolution, life cycles, and identification of major groups. This course included two hours of lecture and two hours of lab per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

Plus Electives (9-11 credits)

0-7 credits MUST be upper division credits depending on choices made within the major requirements

Bachelor of Arts in Interdisciplinary Studies, General Agriculture - Business Emphasis

Go to: Interdisciplinary Studies

This degree is delivered in partnership with Colorado State University. Students will enroll in both ASU face to face classes and CSU online or hybrid courses. Upon successful completion of the degree program, students will have a well-built foundation not only in general education but also in a general Agriculture Business Track.

Go to: General Agriculture Biology Track

Faculty

Zena Buser, Ph.D.

Major Requirements (52-54 credits)

*Colorado State University Online Courses

- HORT 100 - Horticultural Science **3 to 4 Credit(s) ***
OR
- SOCR 100 - General Crops **3 to 4 Credit(s) ***

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

- BSPM 201 - Weed Management & Control **3 Credit(s) ***

GSCI 201 - Introduction to Cartography and GIS

3 Credit(s)

This course will introduce students to the core concepts of Geographic Information Systems (GIS) and the importance and relevance of GIS in today's world. Students will learn what GIS is, what it is used for, and how to perform basic and core tasks involving GIS analysis. An objective is to help students develop the ability to think critically about cartographic processes and representations as well as develop their skills in creating maps. Students are expected to have basic computer proficiency prior to enrolling in this course.

OR

- SOCR 377 - GIS Systems in Agriculture **3 Credit(s) ***

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

- * HORT 260 - Plant Propagation **4 Credit(s) ***
- * HORT 310 - Greenhouse Management **3 Credit(s) ***

- BSPM 355A - Horticulture Pathology: General Pathology **3 Credit(s) * AND**
- BSPM 355B - Horticulture Pathology: Turf & Ornamental Disease **3 Credit(s) * AND**
- BSPM 355C - Horticulture Pathology: Vegetable & Greenhouse Disease **3 Credit(s) * AND**
- **OR**
- BSPM 361 - Elements of Plant Pathology **3 Credit(s) ***

- HORT 368 - Landscape Irrigation & Water Conservation **3 Credit(s) ***
- **OR**
- SOCR 370 - Irrigation Principles **2 to 3 Credit(s) ***

- SOCR 420 - Crop & Soil Management Systems I **1 Credit(s) AND ***
- SOCR 421 - Crop & Soil Management Systems II **1 Credit(s) ***
- **OR**
- HORT 454 - Horticulture Crop Production & Management (Capstone) **1 Credit(s) ***

Business Track Requirements (24 credits)

BUS 105 - Introduction to Agribusiness

3 Credit(s)

An introductory course designed to provide students with a basic background in agribusiness issues and practices to give them the foundation to be successful in upper level agribusiness courses and meet expectations for basic knowledge in agribusiness relationships.

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 364 - Agribusiness Management

3 Credit(s)

Management issues of agricultural businesses such as the forms of ownership, financial statements, analysis, and planning, investment analysis, strategic marketing, management of organizations, and human resources management.

Prerequisite(s):

BUS 105 Minimum Grade: C- OR T
AND

BUS 207 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

BUS 384 - Natural Resources/Water Law

3 Credit(s)

The goal of this course is to provide students with knowledge of the regulatory responsibilities related to agriculture production and operations with respect to natural resources and water. The course will cover federal, state, and local requirements as well as application to agribusiness endeavors.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 211 Minimum Grade: C- OR T

BUS 398 - Farm and Ranch Management

3 Credit(s)

The application of economic and business principles to the management and operation of farms and ranches for decision making purposes.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 207 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

Electives (14-15 credits)

1-7 credits MUST be upper division credits depending on choices within the major requirements.

Bachelor of Arts in Interdisciplinary Studies, Individualized program of study

Go to: Interdisciplinary Studies

Students design a degree program that intentionally combines coursework from two different disciplines.

The Bachelor of Arts in Interdisciplinary Studies degree allows students to design a program of study combining two subject areas. No more than 30 credits of coursework with the same prefix can be used to satisfy the combined 40 credits (20 + 20) needed for the emphasis areas (e.g. no more than 30 BUS credits, no more than 30 HIST credits, no more than 30 CHEM credits, etc. can be applied toward the emphases).

Area I (20 Credit Hours)

Area II (20 Credit Hours)

Requirements

- Courses applied toward the Undergraduate General Education Requirements cannot also be used for credit in an emphasis area.
- At least 15 of the required 42 upper-division hours must fall within the (combined) emphasis areas.
- Courses associated with emphasis areas must be completed with a grade of 'C-' or higher.
- At least 12 of the 40 credit hours associated with the emphasis areas must be Adams State University courses.
- At least 30 credit hours (of the required 120) must be Adams State University courses.

Bachelor of Arts in Liberal Arts, Studio Art

Go to: Art

This degree offers you the opportunity to explore several different mediums and discipline areas that will challenge your creative thinking and problem-solving skills. Our program prepares you for a wide variety of creative career tracks which can be complemented by a minor in Theatre or another field.

Specific Courses Required for This Degree

A. Required Studio Core (18 Credits)

Students may be excused from basic studio courses on the merit of a portfolio (art studio) by the department chair.

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

AR 252 - Beginning 3D - Form and Extended Media

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to fabrication and subtractive processes and materials. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in introductory metal fabrication, CAD/CAM technology, metal casting, and wood or stone carving. This course has a course specific fee to cover the costs of some materials.

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

AR 498 - Professional Practice

3 Credit(s)

Designed to be the capstone experience for all students who have majored in Art. Students will organize a group exhibition of their work and prepare portfolios and other tools for professional futures. Emphasis will be placed on responsible teamwork and professionalism.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

B. Required Art History & Theory Core (12 Credits)

AR 105 - Introduction to Art Criticism

3 Credit(s)

This course introduces students to art criticism and critical thinking in the field of visual art. Exercises in reading about art, observing art, and talking and writing about art, will develop the student's ability to discuss their own work and a wide variety of artworks by others. Students will be introduced to and practice techniques for reading, thinking, writing, and speaking critically as applied to art.

AR 305 - Art Theory

3 Credit(s)

A lecture course that covers major themes in art theory and asks students to articulate which aspects of art theory relate to their studio work and how they relate.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AND

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

AR 364 - History of Art I

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms prehistoric times to the Eighteenth Century.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 365 - History of Art II

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms from the 18th Century to the 21st Century. Additionally this course includes a brief survey of the arts of African, Asian, and Native American cultures.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

C. Plus 6 Hours from the Following (2D Electives)

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR 320 - Intermediate Painting I

3 Credit(s)

Intermediate study of painting media with emphasis on perceptual abilities and personal expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- or T

AND

AR 220 Minimum Grade: C- or T

D. Plus 6 Hours from the Following (3D Electives)

- AR 3XX - 3D Material Studies Rotator

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this

course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing

3 Credit(s)

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain

making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-

OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

E. Plus 3 Hours from the Following

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 306 - Illustrator

3 Credit(s)

This course is an advanced design class. Using Adobe Illustrator, students will study design concepts related to computer graphics, illustration, and typography as well as historical traditions in graphic design.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

AR 310 - Photoshop

3 Credit(s)

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

F. Complete One or More 12-hour Area of Emphasis in One of the Following Areas

- Art History
- Drawing
- Painting
- Graphic Design
- Photography
- Form and Extended Media

G. Completion of Departmental Assessment Procedures

Additional credits in the major are to be selected in consultation with your advisor.

Bachelor of Arts in Mathematics

Go to: Mathematics

Required Mathematics Core (22 credits)

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

MATH 220 - Calculus III

4 Credit(s)

This course is an introduction to the calculus of functions of several variables. Typical topics include three-dimensional analytic geometry, vectors, parametric curves and surfaces, arc length and curvature, limits, continuity, partial derivatives, gradients, directional derivatives, tangent planes, multiple integrals, vector fields, line and surface integrals, Green's theorem, Stokes' Theorem, and the divergence theorem.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 250 - Introduction to Mathematical Thought

3 Credit(s)

This course looks at topics central to further study in mathematics. These include symbolic logic, especially as it applies to mathematical proof; methods of mathematical proof such as direct proof, indirect proof, and by induction; use and meaning of mathematical quantifiers and predicates; sets; relations; equivalence relations and partitions; order relations; and functions and their properties.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

MATH 321 - Linear Algebra

3 Credit(s)

An introduction to linear algebra. Typical topics include solutions of systems of linear equations, matrix algebra, determinants, vector spaces, linear independence, span, basis, dimension, coordinates, linear transformations, matrix representations of linear transformations, eigenvalues, eigenvectors, diagonalization, Gram-Schmidt orthonormalization projection, and applications.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 471 - Senior Capstone I

1 Credit(s)

First-semester of a capstone course intended for senior mathematics majors. In this course students will begin the development of a project to be conducted under the guidance of a faculty advisor from the department. In addition, the course will focus on written and oral communication of technical material appropriate to the disciplines of mathematics, computer science, and physics.

Prerequisite(s):

Senior Standing

MATH 472 - Senior Capstone II

1 Credit(s)

Second-semester of a capstone course intended for senior mathematics majors. In this course students will continue the development of an independent project, begun in MATH 471, and conducted under the guidance of a faculty advisor from the department. In addition, the course will focus on written and oral communication of technical material appropriate to the disciplines of mathematics, computer science, and physics.

Prerequisite(s):

MATH 471 Minimum Grade: C- OR T

Minimum of 3 Credits in Pure Mathematics Is Required

MATH 322 - Algebraic Structures I

3 Credit(s)

An introduction to the theory of groups. Typical topics include sets, mappings, binary operations, equivalence relations, partitions, the integers, induction, the well-ordering property, elementary number theory, cryptography, coding theory, groups (permutation groups, symmetry groups, matrix groups, and cyclic groups), subgroups, cosets, Lagrange's theorem, normal subgroups, homomorphisms, isomorphisms, Cayley's theorem, and isomorphism theorems.

Prerequisite(s):

MATH 250 Minimum Grade: C- OR T
AND

MATH 321 Minimum Grade: C- OR T

MATH 331 - Modern Geometry

3 Credit(s)

An introduction to plane geometry intended for future teachers of mathematics. Typical topics include deductive reasoning and the axiomatic method, Euclidean geometry, parallelism, hyperbolic and other non-Euclidean geometries.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T
AND

MATH 250 Minimum Grade: C- OR T

MATH 420 - Advanced Analysis I

3 Credit(s)

Rigorous presentation of the fundamental concepts and techniques of real analysis, including a careful study of continuity and convergence, sets and functions, sequences and series, limits and continuity, and differentiation.

Prerequisite(s):

MATH 220 Minimum Grade: C- OR T
AND

MATH 250 Minimum Grade: C- OR T

MATH 430 - Complex Analysis

3 Credit(s)

Theory of functions of one complex variable, including derivatives, integrals, power series, residues, and conformal mappings.

Prerequisite(s):

MATH 220 Minimum Grade: C- OR T

MATH 440 - Topology

3 Credit(s)

This course is an introduction to the theory of point-set topology. The main components of the course will be topological spaces, including product and quotient spaces, continuous functions, local and global connectedness, local and global compactness, countability, separability, and the Tychonoff axioms. The culmination of the course will be in the Tietze extension theorem, Uryson's Lemma, and Uryson's Metrization theorem. Further study into Tychonoff axioms and spaces and the Tychonoff theorem will be done, time permitting.

Prerequisite(s):

MATH 250 Minimum Grade: C- OR T

Minimum of 3 Credits in Applied Mathematics Is Required

MATH 327 - Differential Equations

3 Credit(s)

An introduction to the study and application of ordinary differential equations. Typical topics include first order differential equations, linear differential equations, systems of equations, existence and uniqueness of solutions, bifurcations, the Laplace transform, matrix methods, and stability theorems.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 330 - Numerical Analysis

3 Credit(s)

Numerical methods for the solution of mathematical problems and computer application of those methods. Typical topics include the bisection algorithm, fixed point iteration, interpolation, polynomial approximation, numerical differentiation and integration, solution of systems of linear equations, least squares approximation, and error analysis.

Prerequisite(s):

MATH 121 Minimum Grade: C- or T
AND

CSCI 202 Minimum Grade: C- or T

OR

CSCI 205 Minimum Grade: C- or T

MATH 340 - Probability and Statistics

3 Credit(s)

A mathematically oriented introductory course in probability and statistics. Typical topics include counting techniques and laws of probability, independence, discrete and continuous random variable, distributions (normal, t, chi, square, F, Poisson, exponential, and sampling), regression correlation, confidence intervals and hypothesis testing, mathematical expectation, moment generating functions, the Central Limit Theorem, and point estimation.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

15 Additional Credits (Distinct from Previous)

CSCI 224 - Discrete Concepts

4 Credit(s)

A course on the fundamentals of discrete (as opposed to continuous) processes. The course is a foundational course for students pursuing the B.S. Mathematical Sciences Computer Science degree. The course covers a variety of discrete mathematical topics required for a solid background in computer science, including mathematical logic, set theory, induction, algorithmic complexity, combinatorics, discrete probability, basic graph theory, relations, Boolean algebra, finite state automata, and basic theory of computation.

Prerequisite(s):

Math Placement Test - Minimum Score: 5

OR

MATH 106 Minimum Grade: C- OR T

AND

CSCI 205 Minimum Grade: C- OR T

MATH 230 - Excursions in Mathematics

3 Credit(s)

A quantitative and qualitative exploration of some of the great ideas and methods of mathematics. The main focus is on critical thinking and problem solving, as well as mathematical communication. Topics covered include infinity, logic, probability, statistics, Fibonacci numbers, the golden ratio, topology, non-Euclidean geometry, graphs, Pascal's triangle, tiling, fractals, voting theory chaos, and higher dimensions.

Prerequisite(s):

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

MATH 322 - Algebraic Structures I

3 Credit(s)

An introduction to the theory of groups. Typical topics include sets, mappings, binary operations, equivalence relations, partitions, the integers, induction, the well-ordering property, elementary number theory, cryptography, coding theory, groups (permutation groups, symmetry groups, matrix groups, and cyclic groups), subgroups, cosets, Lagrange's theorem, normal subgroups, homomorphisms, isomorphisms, Cayley's theorem, and isomorphism theorems.

Prerequisite(s):

MATH 250 Minimum Grade: C- OR T

AND

MATH 321 Minimum Grade: C- OR T

MATH 323 - Algebraic Structures II

3 Credit(s)

An introduction to the theory of rings and fields. Typical topics include rings, ideals, integral domains, fields, ring homomorphisms, quotient rings, polynomial rings, division algorithms, factorization of polynomials, extensions of fields, finite fields, and Galois theory.

Prerequisite(s):

MATH 322 Minimum Grade: C- OR T

MATH 327 - Differential Equations

3 Credit(s)

An introduction to the study and application of ordinary differential equations. Typical topics include first order differential equations, linear differential equations, systems of equations, existence and uniqueness of solutions, bifurcations, the Laplace transform, matrix methods, and stability theorems.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 330 - Numerical Analysis

3 Credit(s)

Numerical methods for the solution of mathematical problems and computer application of those methods. Typical topics include the bisection algorithm, fixed point iteration, interpolation, polynomial approximation, numerical differentiation and integration, solution of systems of linear equations, least squares approximation, and error analysis.

Prerequisite(s):

MATH 121 Minimum Grade: C- or T

AND

CSCI 202 Minimum Grade: C- or T

OR

CSCI 205 Minimum Grade: C- or T

MATH 331 - Modern Geometry

3 Credit(s)

An introduction to plane geometry intended for future teachers of mathematics. Typical topics include deductive reasoning and the axiomatic method, Euclidean geometry, parallelism, hyperbolic and other non-Euclidean geometries.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

AND

MATH 250 Minimum Grade: C- OR T

MATH 335 - History of Mathematics

3 Credit(s)

This course traces the historical development of mathematics from ancient to modern times, placing mathematical facts into a meaningful intellectual and historical context. Typical topics include mathematics in early civilization such as Egypt and Babylonia; early Greek mathematics from Euclid to Archimedes; the work of Diophantus; mathematics in medieval Islam and its transmission to the Latin West; the early development of algebra; the analytic geometry of Descartes and Fermat; the development of the calculus at the hands of Newton and Leibniz; the contributions of the Bernouilli family; nineteenth-century analysis from Cauchy to Weierstrass; nineteenth-century algebra from Galois through Klein; the development of non-Euclidean geometry; and Cantor's development in set theory.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 340 - Probability and Statistics

3 Credit(s)

A mathematically oriented introductory course in probability and statistics. Typical topics include counting techniques and laws of probability, independence, discrete and continuous random variable, distributions (normal, t, chi, square, F, Poisson, exponential, and sampling), regression correlation, confidence intervals and hypothesis testing, mathematical expectation, moment generating functions, the Central Limit Theorem, and point estimation.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 379 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

MATH 420 - Advanced Analysis I

3 Credit(s)

Rigorous presentation of the fundamental concepts and techniques of real analysis, including a careful study of continuity and convergence, sets and functions, sequences and series, limits and continuity, and differentiation.

Prerequisite(s):

MATH 220 Minimum Grade: C- OR T

AND

MATH 250 Minimum Grade: C- OR T

MATH 421 - Advanced Analysis II

3 Credit(s)

This course is a continuation of MATH 420 with an emphasis on integration, sequences and series of functions, uniform convergence, infinite series, and additional topics of the instructors choosing.

Prerequisite(s):

MATH 420 Minimum Grade: C- OR T

MATH 430 - Complex Analysis

3 Credit(s)

Theory of functions of one complex variable, including derivatives, integrals, power series, residues, and conformal mappings.

Prerequisite(s):

MATH 220 Minimum Grade: C- OR T

MATH 440 - Topology

3 Credit(s)

This course is an introduction to the theory of point-set topology. The main components of the course will be topological spaces, including product and quotient spaces, continuous functions, local and global connectedness, local and global compactness, countability, separability, and the Tychonoff axioms. The culmination of the course will be in the Tietze extension theorem, Uryson's Lemma, and Uryson's Metrization theorem. Further study into Tychonoff axioms and spaces and the Tychonoff theorem will be done, time permitting.

Prerequisite(s):

MATH 250 Minimum Grade: C- OR T

MATH 479 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

1 Class in Computer Programming Is Required (3 or 4 Credits)

CSCI 202 - Programming for Science/Math/Engineering

3 Credit(s)

Covers the fundamentals of programming in a language widely used in mathematical, scientific, and engineering disciplines. The programming language may vary each time the course is offered. Examples of languages that may be used in the course include C++, Python, and MatLab.

Prerequisite(s):

Math Placement Test - Minimum Score: 5

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

CSCI 205 - Computer Science I

4 Credit(s)

This course is the second course in the introductory programming sequence for computer science majors. Through the study of object design this course introduces the basics of graphical user interfaces, data types, control structures, methods, arrays, strings, files, simple graphics and fundamental algorithms. Students will also be introduced to object oriented design, polymorphism, interfaces, the concept of object abstraction, and simple design patterns.

Prerequisite(s):

CSCI 104 Minimum Grade: C- OR T

OR

CSCI 202 Minimum Grade: C- OR T

Minimum 10 Credit Hours

from the following list of science classes (must include corresponding lab):

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T

AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

Note

The above corresponds to a minimum of 56 credits required with 20 upper-division MATH courses

Bachelor of Arts in Mathematics, Secondary Teacher Licensure

Go to: Bachelor of Arts, Secondary Education Licensure

Go to: Mathematics

This degree track is designed to meet the needs of individuals interested in teaching mathematics at the middle-school level and to increase the number of middle-school teachers with a strong mathematics background.

Note: Colorado does not grant licensure for the middle-school grades separate from high school, and furthermore defines the term "highly qualified" as 24 credits in a content area. This degree track exceeds the 24 credit "highly qualified" definition; it follows the suggestions set forth by the Mathematical Association of America (MAA) for prospective middle-school teachers (grades 6-8) and provides appropriate background for someone to meet the Colorado Model Content Standards for mathematics at the middle-school level. However, the coursework in this degree track does NOT provide sufficient background in several areas as described in the guidelines set forth by the MAA for preparing high school teachers (grades 9-12), nor does it meet the requirements for secondary licensure (mathematics) in all states (i.e., a traditional B.A. degree in mathematics).

In summary, this degree track is designed to meet the needs of middle school teachers, provides adequate preparation for a high school teacher in a rural environment, and exceeds the 24 credit hours of content benchmark set by the state for secondary licensure in a content area.

Complete Required Mathematics Requirements

Required Mathematics Core (27 Credits)

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T

OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

MATH 230 - Excursions in Mathematics

3 Credit(s)

A quantitative and qualitative exploration of some of the great ideas and methods of mathematics. The main focus is on critical thinking and problem solving, as well as mathematical communication. Topics covered include infinity, logic, probability, statistics, Fibonacci numbers, the golden ratio, topology, non-Euclidean geometry, graphs, Pascal's triangle, tiling, fractals, voting theory chaos, and higher dimensions.

Prerequisite(s):

MATH 107 Minimum Grade: C- OR T
OR

MATH 120 Minimum Grade: C- OR T

MATH 250 - Introduction to Mathematical Thought

3 Credit(s)

This course looks at topics central to further study in mathematics. These include symbolic logic, especially as it applies to mathematical proof; methods of mathematical proof such as direct proof, indirect proof, and by induction; use and meaning of mathematical quantifiers and predicates; sets; relations; equivalence relations and partitions; order relations; and functions and their properties.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

MATH 331 - Modern Geometry

3 Credit(s)

An introduction to plane geometry intended for future teachers of mathematics. Typical topics include deductive reasoning and the axiomatic method, Euclidean geometry, parallelism, hyperbolic and other non-Euclidean geometries.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T
AND

MATH 250 Minimum Grade: C- OR T

MATH 335 - History of Mathematics

3 Credit(s)

This course traces the historical development of mathematics from ancient to modern times, placing mathematical facts into a meaningful intellectual and historical context. Typical topics include mathematics in early civilization such as Egypt and Babylonia; early Greek mathematics from Euclid to Archimedes; the work of Diophantus; mathematics in medieval Islam and its transmission to the Latin West; the early development of algebra; the analytic geometry of

Descartes and Fermat; the development of the calculus at the hands of Newton and Leibniz; the contributions of the Bernoulli family; nineteenth-century analysis from Cauchy to Weierstrass; nineteenth-century algebra from Galois through Klein; the development of non-Euclidean geometry; and Cantor's development in set theory.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 471 - Senior Capstone I

1 Credit(s)

First-semester of a capstone course intended for senior mathematics majors. In this course students will begin the development of a project to be conducted under the guidance of a faculty advisor from the department. In addition, the course will focus on written and oral communication of technical material appropriate to the disciplines of mathematics, computer science, and physics.

Prerequisite(s):

Senior Standing

MATH 472 - Senior Capstone II

1 Credit(s)

Second-semester of a capstone course intended for senior mathematics majors. In this course students will continue the development of an independent project, begun in MATH 471, and conducted under the guidance of a faculty advisor from the department. In addition, the course will focus on written and oral communication of technical material appropriate to the disciplines of mathematics, computer science, and physics.

Prerequisite(s):

MATH 471 Minimum Grade: C- OR T

Complete a Minimum of 6 Additional Credits (not more than three credits can be a computer science course)

CSCI 202 - Programming for Science/Math/Engineering

3 Credit(s)

Covers the fundamentals of programming in a language widely used in mathematical, scientific, and engineering disciplines. The programming language may vary each time the course is offered. Examples of languages that may be used in the course include C++, Python, and MatLab.

Prerequisite(s):

Math Placement Test - Minimum Score: 5

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

CSCI 205 - Computer Science I

4 Credit(s)

This course is the second course in the introductory programming sequence for computer science majors. Through the study of object design this course introduces the basics of graphical user interfaces, data types, control structures, methods, arrays, strings, files, simple graphics and fundamental algorithms. Students will also be introduced to object oriented design, polymorphism, interfaces, the concept of object abstraction, and simple design patterns.

Prerequisite(s):

CSCI 104 Minimum Grade: C- OR T

OR

CSCI 202 Minimum Grade: C- OR T

CSCI 224 - Discrete Concepts

4 Credit(s)

A course on the fundamentals of discrete (as opposed to continuous) processes. The course is a foundational course for students pursuing the B.S. Mathematical Sciences Computer Science degree. The course covers a variety of discrete mathematical topics required for a solid background in computer science, including mathematical logic, set theory, induction, algorithmic complexity, combinatorics, discrete probability, basic graph theory, relations, Boolean algebra, finite state automata, and basic theory of computation.

Prerequisite(s):

Math Placement Test - Minimum Score: 5

OR

MATH 106 Minimum Grade: C- OR T

AND

CSCI 205 Minimum Grade: C- OR T

MATH 140 - Geometry Using Technology

3 Credit(s)

An introduction to the major concepts of Euclidean Geometry using interactive geometric visualization software such as Geometer's Sketchpad, Kig, or C.a.R. Students will use the software to survey Euclidean Geometry and discover basic principles and theorems.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

Accuplacer - Math - Minimum Score: 085

OR

MATH 99 Minimum Grade: S OR T

MATH 220 - Calculus III

4 Credit(s)

This course is an introduction to the calculus of functions of several variables. Typical topics include three-dimensional analytic geometry, vectors, parametric curves and surfaces, arc length and curvature, limits, continuity, partial derivatives, gradients, directional derivatives, tangent planes, multiple integrals, vector fields, line and surface integrals, Green's theorem, Stokes' Theorem, and the divergence theorem.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 321 - Linear Algebra

3 Credit(s)

An introduction to linear algebra. Typical topics include solutions of systems of linear equations, matrix algebra, determinants, vector spaces, linear independence, span, basis, dimension, coordinates, linear transformations, matrix representations of linear transformations, eigenvalues, eigenvectors, diagonalization, Gram-Schmidt orthonormalization projection, and applications.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 322 - Algebraic Structures I

3 Credit(s)

An introduction to the theory of groups. Typical topics include sets, mappings, binary operations, equivalence relations, partitions, the integers, induction, the well-ordering property, elementary number theory, cryptography, coding theory, groups (permutation groups, symmetry groups, matrix groups, and cyclic groups), subgroups, cosets, Lagrange's theorem, normal subgroups, homomorphisms, isomorphisms, Cayley's theorem, and isomorphism theorems.

Prerequisite(s):

MATH 250 Minimum Grade: C- OR T
AND

MATH 321 Minimum Grade: C- OR T

MATH 327 - Differential Equations

3 Credit(s)

An introduction to the study and application of ordinary differential equations. Typical topics include first order differential equations, linear differential equations, systems of equations, existence and uniqueness of solutions, bifurcations, the Laplace transform, matrix methods, and stability theorems.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 330 - Numerical Analysis

3 Credit(s)

Numerical methods for the solution of mathematical problems and computer application of those methods. Typical topics include the bisection algorithm, fixed point iteration, interpolation, polynomial approximation, numerical differentiation and integration, solution of systems of linear equations, least squares approximation, and error analysis.

Prerequisite(s):

MATH 121 Minimum Grade: C- or T

AND

CSCI 202 Minimum Grade: C- or T

OR

CSCI 205 Minimum Grade: C- or T

MATH 340 - Probability and Statistics

3 Credit(s)

A mathematically oriented introductory course in probability and statistics. Typical topics include counting techniques and laws of probability, independence, discrete and continuous random variable, distributions (normal, t, chi, square, F, Poisson, exponential, and sampling), regression correlation, confidence intervals and hypothesis testing, mathematical expectation, moment generating functions, the Central Limit Theorem, and point estimation.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 420 - Advanced Analysis I

3 Credit(s)

Rigorous presentation of the fundamental concepts and techniques of real analysis, including a careful study of continuity and convergence, sets and functions, sequences and series, limits and continuity, and differentiation.

Prerequisite(s):

MATH 220 Minimum Grade: C- OR T

AND

MATH 250 Minimum Grade: C- OR T

MATH 430 - Complex Analysis

3 Credit(s)

Theory of functions of one complex variable, including derivatives, integrals, power series, residues, and conformal mappings.

Prerequisite(s):

MATH 220 Minimum Grade: C- OR T

Note

The above corresponds to a minimum of 69 credits required with 8 upper-division MATH courses

Plus Additional Secondary Education Licensure Requirements from the School of Education

Bachelor of Arts, Secondary Education Licensure

Bachelor of Arts in Media, Industry, and Communication (online only)

Go to: Languages, Literature, and Media Communication

Specific courses required for this degree:

Communication requirements (42 hours)

COMM 100 - Public Speaking

3 Credit(s)

Students will learn the theories behind and the techniques of public speaking. Students will compose, videotape, and upload speeches on various topics and various styles for peer and instructor critique. Students will also learn about the various models of public speaking and the fundamentals of communication theory.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

COMM 230 - Media Writing

3 Credit(s)

Students will survey the fundamental types of media writing, including inverted pyramid news writing, feature writing, blogging, and screenplays. News literacy will also be covered.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

COMM 293 - Media Practicum

3 Credit(s)

Students will work hands-on to learn various media industry-related skills. Students will deejay for Grizz Sound, and/or create podcasts, write for The Paw Print, and create a short video piece.

Prerequisite(s):

COMM 230 Minimum Grade: C- OR T

COMM 327 - Social Media

3 Credit(s)

Surveys the history of the early Internet and the transition to Web 2.0. Students will apply this knowledge by designing, creating, and developing social media presence for non-profits, local municipalities, etc., and training the recipients on how to maintain their social media presence

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

COMM 345 - Business of Radio and TV

3 Credit(s)

This course is designed for majors of Communication & Media, Media Industry & Communication, Public Relations, and other majors who are interested in careers in the radio and television industries. Students will study in-depth as to how the radio and television industries operate.

COMM 355 - Public Relations and Strategic Communication

3 Credit(s)

Students will study the theoretical and practical elements of the field of public relations and the use of strategic communication. Student will then compose public relations materials applying the elements studied.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

COMM 365 - Digital Filmmaking

3 Credit(s)

This course covers the aesthetics and practice of narrative, documentary, and experimental media production using a variety of digital filmmaking tools including digital photography, digital video, audio recorders, and editing software. Students will complete video products they can post to YouTube and similar sites.

Prerequisite(s):

COMM 230 Minimum Grade: C- OR T

COMM 380 - Spanish Media

3 Credit(s)

Students will examine the issues facing Spanish-speaking media in the United States, as well as its business model and the skills needed to enter the field. Bilingual recommended but not required.

Prerequisite(s):

COMM 345 Minimum Grade: C- OR T

COMM 425 - Media Research Methods

3 Credit(s)

Students will examine the prominent methods of media research, including quantitative and qualitative research, reliability and validity, specific methods used in the industry, the Nielsen ratings, and market trends.

Prerequisite(s):

ENG 102 Minimum Grade: C-

COMM 430 - Diversity in Media

3 Credit(s)

Students will analyze how US media represents traditionally marginalized people in the United States. The course will be primarily discussion based, with students and instructor working together to generate ideas and critique dominant ideologies.

Prerequisite(s):

COMM 350 Minimum Grade: C- OR T

COMM 457 - First Amendment and Copyright

3 Credit(s)

This course explores the First Amendment of the U.S. Constitution and current U.S. copyright laws, and how they apply to and affect both media practitioners and U.S. citizens.

Prerequisite(s):

COMM 255 Minimum Grade: C- OR T
AND

COMM 275 Minimum Grade: C- OR T

COMM 496 - Communication Internship

1 to 3 Credit(s)

Advanced communication students will work in a pre-employment capacity in the field of communications/journalism (broadcasting, video, print, satellite, or computing), applying learned skills in a working environment.

Note

An E-Portfolio of the student's work must be submitted during the senior year.

Guidelines for assembling the portfolio and deadlines for submissions are available from the department chair, the program coordinator or major advisor.

A minor in an area of specialization is recommended.

A minor in business or marketing is especially recommended.

Students must have at least 42 credit hours in 300 or 400 level courses to graduate.

Students must take the online interdisciplinary first year seminar and capstone.

Bachelor of Arts in Music Education, K-12 Licensure

Go to: Bachelor of Arts, K-12 Education Licensure

Go to: Music

Entrance Requirements

New music majors and minors are required to complete an entrance audition for admittance to the Department of Music.

Placement Examinations

- Transfer and new students in music must take placement examinations as appropriate in applied music and music theory.
- Students who have not been enrolled in applied music or music theory for two or more years must reaudit for admittance into the Department of Music and take a theory placement exam.

Specific Courses Required for this Degree

Completion of the Undergraduate General Education Requirements for the Bachelor of Arts degree, which must include MUS 100, plus the Bachelor of Arts, K-12 Education Licensure requirements.

Completion of the Following

MUS 000 - Recital Attendance

0 Credit(s)

A requirement for music majors and minors, which consists of attendance at a designated number of concerts/recitals each semester.

MUS 106 - Careers in the Music Industry

1 Credit(s)

The course provides a broad overview of the music industry, the career opportunities that are available, and effective methods of preparing for success in ones chosen career path.

MUS 103 - Introduction to Music Technology

1 Credit(s)

An introduction to music technology, covering a broad range of topics such as music notation, MIDI, music sequencing, mixing, and basic audio editing. The programs to be used include Finale, Garageband, and Audacity, and students compose music utilizing basic concepts of music fundamentals and music theory. The goal of this course is to equip students with music technology skills and knowledge that will be of benefit during their collegiate and professional careers.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 104 - Music Theory I

3 Credit(s)

Development of basic music skills and harmony with practical application through part-writing and composition.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 108 - Aural Skills I

1 Credit(s)

Foundational work in sight singing and written dictation.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 140 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

MUS 141 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 140 Minimum Grade: D OR T

MUS 204 - Music Theory II

3 Credit(s)

Advanced study in music writing and analysis with emphasis on tonal and chromatic harmony.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

MUS 208 - Aural Skills II

1 Credit(s)

Emphasis on sight singing in parts, more difficult keys and intervals, modulations, and rhythmic patterns in dictation.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T
AND

MUS 108 Minimum Grade: C- OR T

Co-requisite(s): MUS 204

MUS 240 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 141 Minimum Grade: C- OR T

MUS 241 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 240 Minimum Grade: C- OR T

MUS 304 - Advanced Theory

3 Credit(s)

The study of advanced chromatic harmony and twentieth-century musical techniques through analysis and composition.

Prerequisite(s):

MUS 103 Minimum Grade: C- OR T
AND

MUS 104 Minimum Grade: C- OR T

AND

MUS 204 Minimum Grade: C- OR T

MUS 308 - Advanced Aural Skills

1 Credit(s)

Advanced sight singing and ear training, including harmonic and melodic dictation using chromatic intervals.

Prerequisite(s):

MUS 208 Minimum Grade: C- OR T

MUS 320 - Advanced Piano Class

1 Credit(s)

Advanced functional keyboard technique with emphasis on skills needed to fulfill the piano proficiency requirement.

Prerequisite(s):

MUS 220 Minimum Grade: C- OR T

MUS 322 - Percussion Methods

1 Credit(s)

A course designed to enable music education majors to gain a practical knowledge of percussion instruments and relevant pedagogy.

MUS 323 - Brass Methods

1 Credit(s)

A course designed to enable music education majors to gain a practical knowledge of brass instruments and relevant pedagogy.

MUS 324 - Woodwind Methods

1 Credit(s)

A course designed to enable music education majors to gain a practical knowledge of woodwind instruments and relevant pedagogy.

MUS 325 - String Methods

1 Credit(s)

A course designed to enable music education majors to gain a practical knowledge of string instruments and relevant pedagogy.

MUS 326 - Music History I

3 Credit(s)

A detailed survey of music history from antiquity to 1750.

Prerequisite(s):

MUS 100 Minimum Grade: C- OR T
AND

MUS 104 Minimum Grade: C- OR T

MUS 327 - Music History II

3 Credit(s)

A detailed survey of music history from 1750 to the present.

Prerequisite(s):

MUS 100 Minimum Grade: C- OR T
AND

MUS 104 Minimum Grade: C- OR T

MUS 333 - Form and Analysis

2 Credit(s)

This course examines the principal musical forms and structural elements of music from the Baroque period through the present. While the majority of the course covers western classical music and composers, forms in pop and rock music will also be covered. Students will be introduced to a variety of approaches and philosophies of musical analysis,

accomplished through listening and analysis of musical repertoire. A principal outcome of this course is an increased awareness of the elements of musical form and how they are important in developing insight, understanding, and interpretation of a musical work.

Prerequisite(s):

MUS 304 Minimum Grade: C- or T
AND

MUS 308 Minimum Grade: C- or T

MUS 340 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 241 Minimum Grade: C- OR T

MUS 341 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 340 Minimum Grade: C- OR T

MUS 345 - Junior Recital

1 Credit(s)

Preparation and presentation of a public recital of approximately one-half hour of music.

Prerequisite(s):

MUS 340 Minimum Grade: C- OR T
OR

MUS 341 Minimum Grade: C- OR T

Co-requisite(s): MUS 341

MUS 360 - Conducting Techniques

2 Credit(s)

Development of fundamental conducting skills, score reading skills, musical concepts, and terminology.

Prerequisite(s):

MUS 204 Minimum Grade: C- OR T

AND

MUS 208 Minimum Grade: C- OR T

MUS 421 - Elementary School Music Methods

3 Credit(s)

A comprehensive study of principles, procedures and pedagogical approaches for teaching and administering music programs in elementary schools (grades K-6). A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation. Students must be enrolled in the Teacher Education Program.

Prerequisite(s):

ED 200 Minimum Grade: C OR T

AND

ED 220 Minimum Grade: C OR T

AND

MUS 304 Minimum Grade: C OR T

AND

MUS 360 Minimum Grade: C OR T

AND

Admission to the Educator Preparation Program

AND

Teacher Education Background Check Passed

MUS 422 - Secondary School Music Methods

3 Credit(s)

A comprehensive study of principles and procedures for teaching and administering music programs in secondary schools (grades 7-12). A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation. Students must be enrolled in the Teacher Education Program.

Prerequisite(s):

ED 200 Minimum Grade: C OR T

AND

ED 220 Minimum Grade: C OR T

AND

MUS 304 Minimum Grade: C OR T

AND

MUS 360 Minimum Grade: C OR T

AND

Admission to the Educator Preparation Program

AND

Teacher Education Background Check Passed

Completion of ONE of the Following Areas of Specialization

Choral

MUS 247 - Concert Choir

1 Credit(s)

Open to all qualified students with repertoire selected from the standard choral concert literature. May be repeated for credit.

OR

MUS 447 - Concert Choir

1 Credit(s)

This course is open to all qualified juniors and seniors, regardless of major, who perform a significant leadership role in the ensemble. Repertoire is selected from standard choral concert literature, as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

OR

MUS 257 - Chamber Choir

1 Credit(s)

An advanced mixed choral ensemble, open to students by audition. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

OR

MUS 457 - Chamber Choir

1 Credit(s)

This course is an advanced mixed choral ensemble, open by audition to junior and senior students who perform a significant leadership role in the ensemble. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

MUS 460 - Advanced Choral Conducting

2 Credit(s)

Advanced techniques for the choral conductor.

Prerequisite(s):

MUS 360 Minimum Grade: C- OR T

MUS 226 - Lyric Diction I

3 Credit(s)

A study of lyric diction and phonetic transcriptions of languages common to standard vocal repertoire. The course includes English, German, Spanish, and an introduction to the International Phonetic Alphabet.

MUS 227 - Lyric Diction II

3 Credit(s)

A study of lyric diction and phonetic transcriptions of languages common to standard vocal repertoire. The course includes Ecclesiastical Latin, Italian, French, and an introduction to the International Phonetic Alphabet.

Instrumental

MUS 245 - Concert Band

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard wind or percussion instrument. May be repeated for credit.

OR

MUS 451 - Concert Band

1 Credit(s)

This course is open to all qualified juniors and seniors, regardless of majors field, who demonstrate sufficient ability on a standard wind or percussion instrument and perform a significant leadership role in the ensemble. May be repeated for credit.

OR

MUS 250 - Orchestra

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard orchestral instrument. May be repeated for credit.

OR

MUS 450 - Orchestra

1 Credit(s)

Open by audition to Junior and Senior students who perform a significant leadership role in the orchestra. Repertoire is selected from standard orchestral literature. May be repeated for credit.

MUS 321 - Voice Methods

1 Credit(s)

A course designed to enable music education majors to gain a practical knowledge of the voice and relevant pedagogy. Not open to students whose principal instrument is voice.

MUS 461 - Advanced Instr Conducting

2 Credit(s)

Advanced techniques for the instrumental conductor.

Prerequisite(s):

MUS 360 Minimum Grade: C- OR T

MUS 486 - Marching Band Techniques

2 Credit(s)

Designed to help the band director chart marching band shows and deal with the logistics and techniques needed to manage the marching band.

Prerequisite(s):

MUS 422 Minimum Grade: C- OR T

Completion of both an Upper-Division Jury Exam and a Piano Proficiency Exam

Plus Additional K-12 Licensure Requirements from the School of Education

Bachelor of Arts, K-12 Education Licensure

Bachelor of Arts in Music, Emphasis in Composition

Go to: Music

Entrance Requirements

New music majors and minors are required to complete an entrance audition for admittance to the Department of Music.

Placement Examinations

- Transfer and new students in music must take placement examinations as appropriate in applied music and music theory.
- Students who have not been enrolled in applied music or music theory for two or more years must reaudition for admittance into the Department of Music and take a theory placement exam.

Completion of the Following

MUS 000 - Recital Attendance

0 Credit(s)

A requirement for music majors and minors, which consists of attendance at a designated number of concerts/recitals each semester.

MUS 106 - Careers in the Music Industry

1 Credit(s)

The course provides a broad overview of the music industry, the career opportunities that are available, and effective methods of preparing for success in ones chosen career path.

FYS 101 - First Year Seminar

1 to 3 Credit(s)

First-year students launch into the Adams Experience through a First-Year Seminar (FYS) course. FYS will engage students by creating habits for success, learning to navigate college life, and build skills for success. Each FYS will focus on a unique topic that will be the theme of course discussions, experiences, and assignments. FYS will develop academic and social capital and support a successful transition into higher education, instill lifelong learning, and reinforce student persistence.

MUS 103 - Introduction to Music Technology

1 Credit(s)

An introduction to music technology, covering a broad range of topics such as music notation, MIDI, music sequencing, mixing, and basic audio editing. The programs to be used include Finale, Garageband, and Audacity, and students compose music utilizing basic concepts of music fundamentals and music theory. The goal of this course is to equip students with music technology skills and knowledge that will be of benefit during their collegiate and professional careers.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 104 - Music Theory I

3 Credit(s)

Development of basic music skills and harmony with practical application through part-writing and composition.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 108 - Aural Skills I

1 Credit(s)

Foundational work in sight singing and written dictation.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 140 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

MUS 141 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 140 Minimum Grade: D OR T

MUS 204 - Music Theory II

3 Credit(s)

Advanced study in music writing and analysis with emphasis on tonal and chromatic harmony.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

MUS 208 - Aural Skills II

1 Credit(s)

Emphasis on sight singing in parts, more difficult keys and intervals, modulations, and rhythmic patterns in dictation.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T
AND

MUS 108 Minimum Grade: C- OR T

Co-requisite(s): MUS 204

MUS 240 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 141 Minimum Grade: C- OR T

MUS 241 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 240 Minimum Grade: C- OR T

MUS 242 - Applied Music - Composition

2 Credit(s)

This course will provide private instruction in basic music composition. May be repeated for credit (four hours maximum).

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

MUS 243 - Applied Music - Composition

2 Credit(s)

This course will provide further private instruction in basic music composition. May be repeated for credit (four hours maximum). This course requires instructor approval for registration purposes.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T
AND

MUS 242 Minimum Grade: C- OR T

MUS 304 - Advanced Theory

3 Credit(s)

The study of advanced chromatic harmony and twentieth-century musical techniques through analysis and composition.

Prerequisite(s):

MUS 103 Minimum Grade: C- OR T
AND

MUS 104 Minimum Grade: C- OR T

AND

MUS 204 Minimum Grade: C- OR T

MUS 308 - Advanced Aural Skills

1 Credit(s)

Advanced sight singing and ear training, including harmonic and melodic dictation using chromatic intervals.

Prerequisite(s):

MUS 208 Minimum Grade: C- OR T

MUS 320 - Advanced Piano Class

1 Credit(s)

Advanced functional keyboard technique with emphasis on skills needed to fulfill the piano proficiency requirement.

Prerequisite(s):

MUS 220 Minimum Grade: C- OR T

MUS 326 - Music History I

3 Credit(s)

A detailed survey of music history from antiquity to 1750.

Prerequisite(s):

MUS 100 Minimum Grade: C- OR T
AND

MUS 104 Minimum Grade: C- OR T

MUS 327 - Music History II

3 Credit(s)

A detailed survey of music history from 1750 to the present.

Prerequisite(s):

MUS 100 Minimum Grade: C- OR T
AND

MUS 104 Minimum Grade: C- OR T

MUS 333 - Form and Analysis**2 Credit(s)**

This course examines the principal musical forms and structural elements of music from the Baroque period through the present. While the majority of the course covers western classical music and composers, forms in pop and rock music will also be covered. Students will be introduced to a variety of approaches and philosophies of musical analysis, accomplished through listening and analysis of musical repertoire. A principal outcome of this course is an increased awareness of the elements of musical form and how they are important in developing insight, understanding, and interpretation of a musical work.

Prerequisite(s):

MUS 304 Minimum Grade: C- or T
AND

MUS 308 Minimum Grade: C- or T

MUS 340 - Applied Music**2 Credit(s)**

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 241 Minimum Grade: C- OR T

MUS 342 - Applied Music - Composition**2 Credit(s)**

This course will provide private instruction in advanced music composition including orchestration techniques. May be repeated for credit (four hours maximum). This course requires instructor approval for registration purposes.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T
AND

MUS 243 Minimum Grade: C- OR T

MUS 343 - Applied Music - Composition**2 Credit(s)**

This course will provide further private instruction in advanced music composition including polyphonic and non-tonal techniques. May be repeated for credit (four hours maximum). This course requires instructor approval for registration purposes.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T
AND

MUS 342 Minimum Grade: C- OR T

MUS 360 - Conducting Techniques

2 Credit(s)

Development of fundamental conducting skills, score reading skills, musical concepts, and terminology.

Prerequisite(s):

MUS 204 Minimum Grade: C- OR T
AND

MUS 208 Minimum Grade: C- OR T

MUS 375 - Music Recording Techniques

3 Credit(s)

This course serves as an introduction to audio and MIDI recording techniques, with topics to be covered including digital audio recording, microphones and microphone setup, digital editing and mixing, audio effects such as compression, reverb, and EQ, MIDI recording, and film scoring techniques. There will be extensive use of the program Cubase in this course. The goal of this course is to provide students with the basic techniques and tools to use recording technology in their musical careers.

Prerequisite(s):

MUS 101: Minimum grade C- or T
and

MUS 103: Minimum grade C- or T

and

MUS 104 : Minimum grade C- or T

or

Instructor Permission

MUS 376 - Topics in Music Business

3 Credit(s)

Topics in Music Business will introduce students to the business aspects of the music industry including market and promotion, copyright law, publishing, contracts, licensing, management, concert promotion and production, profit and non-profit arts organizations, grant writing and fundraising.

MUS 378 - Music Recording Seminar

2 Credit(s)

This course is a project-based course with focus on discussion of projects, recording and mixing techniques, and critical listening to recordings. Students will work on semester-long recording projects in the ASU recording studio and participate in class discussion on these projects..

Prerequisite(s):

MUS 103 Minimum Grade: C- OR T
AND

MUS 375 Minimum Grade: C- OR T

MUS 380 - Commercial Music Composition and Production I

1 Credit(s)

The course will provide seminar-like instruction in commercial music composition (pop, rock, R&B, etc...) and production techniques. Students will work individually or in groups in the ASU recording studio on completing at least one finished composition and recording.

Prerequisite(s):

MUS 103 Minimum Grade: C-
AND

MUS 375 Minimum Grade: C-

AND

MUS 378 Minimum Grade: C-

MUS 381 - Commercial Music Composition and Production II

1 Credit(s)

This course will provide seminar-like instruction in commercial music composition (pop, rock, R&B, etc.), music production techniques, and composing for film trailers and video games. Students will work individually or in groups in the ASU recording studio on completing two film and video game projects and one individual composition and recording in a genre of the students choice.

Prerequisite(s):

MUS 103 Minimum Grade: C- OR T
AND

MUS 375 Minimum Grade: C- OR T

AND

MUS 378 Minimum Grade: C- OR T

- MUS XXX - Upper-Division Music Electives **3 Credit(s)**

MUS 444 - Senior Project - Composition

2 Credit(s)

A course for the development and creation of a work for orchestra or wind ensemble. Orchestration techniques will be explored. Analysis of works within the genres will be examined and discussed. A significant written project on some aspect of contemporary music will be required. This course requires instructor approval for registration purposes.

Prerequisite(s):

MUS 343 Minimum Grade: C- OR T

MUS 445 - Senior Recital

2 Credit(s)

Preparation and presentation of a public recital of approximately forty-five minutes of music. Must be taken concurrently with MUS 440 or MUS 441.

Prerequisite(s):

MUS 440 Minimum Grade: C- OR T
AND

MUS 441 Minimum Grade: C- OR T

Completion of both an Upper-Division Jury Exam and a Piano Proficiency Exam

Large Ensemble Requirements

7 semesters:

MUS 245 - Concert Band

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard wind or percussion instrument. May be repeated for credit.

MUS 451 - Concert Band

1 Credit(s)

This course is open to all qualified juniors and seniors, regardless of majors field, who demonstrate sufficient ability on a standard wind or percussion instrument and perform a significant leadership role in the ensemble. May be repeated for credit.

OR

7 Semesters:

MUS 250 - Orchestra

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard orchestral instrument. May be repeated for credit.

MUS 450 - Orchestra

1 Credit(s)

Open by audition to Junior and Senior students who perform a significant leadership role in the orchestra. Repertoire is selected from standard orchestral literature. May be repeated for credit.

OR

7 Semesters of any Choir Combination:

MUS 247 - Concert Choir

1 Credit(s)

Open to all qualified students with repertoire selected from the standard choral concert literature. May be repeated for credit.

MUS 447 - Concert Choir

1 Credit(s)

This course is open to all qualified juniors and seniors, regardless of major, who perform a significant leadership role in the ensemble. Repertoire is selected from standard choral concert literature, as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

AND/OR

MUS 257 - Chamber Choir

1 Credit(s)

An advanced mixed choral ensemble, open to students by audition. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

MUS 457 - Chamber Choir

1 Credit(s)

This course is an advanced mixed choral ensemble, open by audition to junior and senior students who perform a significant leadership role in the ensemble. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

Bachelor of Arts in Music, Emphasis in Liberal Arts

Go to: Music

Entrance Requirements

New music majors and minors are required to complete an entrance audition for admittance to the Department of Music.

Placement Examinations

- Transfer and new students in music must take placement examinations as appropriate in applied music and music theory.
- Students who have not been enrolled in applied music or music theory for two or more years must reaudit for admittance into the Department of Music and take a theory placement exam.

Completion of the Following

MUS 000 - Recital Attendance

0 Credit(s)

A requirement for music majors and minors, which consists of attendance at a designated number of concerts/recitals each semester.

MUS 103 - Introduction to Music Technology

1 Credit(s)

An introduction to music technology, covering a broad range of topics such as music notation, MIDI, music sequencing, mixing, and basic audio editing. The programs to be used include Finale, Garageband, and Audacity, and students compose music utilizing basic concepts of music fundamentals and music theory. The goal of this course is to equip students with music technology skills and knowledge that will be of benefit during their collegiate and professional careers.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 104 - Music Theory I

3 Credit(s)

Development of basic music skills and harmony with practical application through part-writing and composition.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 106 - Careers in the Music Industry

1 Credit(s)

The course provides a broad overview of the music industry, the career opportunities that are available, and effective methods of preparing for success in ones chosen career path.

MUS 108 - Aural Skills I

1 Credit(s)

Foundational work in sight singing and written dictation.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 140 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

MUS 141 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 140 Minimum Grade: D OR T

MUS 204 - Music Theory II

3 Credit(s)

Advanced study in music writing and analysis with emphasis on tonal and chromatic harmony.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

MUS 208 - Aural Skills II

1 Credit(s)

Emphasis on sight singing in parts, more difficult keys and intervals, modulations, and rhythmic patterns in dictation.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T
AND

MUS 108 Minimum Grade: C- OR T

Co-requisite(s): MUS 204

MUS 240 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 141 Minimum Grade: C- OR T

MUS 241 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 240 Minimum Grade: C- OR T

MUS 304 - Advanced Theory

3 Credit(s)

The study of advanced chromatic harmony and twentieth-century musical techniques through analysis and composition.

Prerequisite(s):

MUS 103 Minimum Grade: C- OR T
AND

MUS 104 Minimum Grade: C- OR T

AND

MUS 204 Minimum Grade: C- OR T

MUS 308 - Advanced Aural Skills

1 Credit(s)

Advanced sight singing and ear training, including harmonic and melodic dictation using chromatic intervals.

Prerequisite(s):

MUS 208 Minimum Grade: C- OR T

MUS 320 - Advanced Piano Class

1 Credit(s)

Advanced functional keyboard technique with emphasis on skills needed to fulfill the piano proficiency requirement.

Prerequisite(s):

MUS 220 Minimum Grade: C- OR T

MUS 326 - Music History I

3 Credit(s)

A detailed survey of music history from antiquity to 1750.

Prerequisite(s):

MUS 100 Minimum Grade: C- OR T
AND

MUS 104 Minimum Grade: C- OR T

MUS 327 - Music History II

3 Credit(s)

A detailed survey of music history from 1750 to the present.

Prerequisite(s):

MUS 100 Minimum Grade: C- OR T
AND

MUS 104 Minimum Grade: C- OR T

MUS 333 - Form and Analysis

2 Credit(s)

This course examines the principal musical forms and structural elements of music from the Baroque period through the present. While the majority of the course covers western classical music and composers, forms in pop and rock music will also be covered. Students will be introduced to a variety of approaches and philosophies of musical analysis, accomplished through listening and analysis of musical repertoire. A principal outcome of this course is an increased awareness of the elements of musical form and how they are important in developing insight, understanding, and interpretation of a musical work.

Prerequisite(s):

MUS 304 Minimum Grade: C- or T
AND

MUS 308 Minimum Grade: C- or T

MUS 340 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 241 Minimum Grade: C- OR T

MUS 360 - Conducting Techniques

2 Credit(s)

Development of fundamental conducting skills, score reading skills, musical concepts, and terminology.

Prerequisite(s):

MUS 204 Minimum Grade: C- OR T
AND

MUS 208 Minimum Grade: C- OR T

Large Ensemble Requirements

7 semesters:

MUS 245 - Concert Band

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard wind or percussion instrument. May be repeated for credit.

MUS 451 - Concert Band

1 Credit(s)

This course is open to all qualified juniors and seniors, regardless of majors field, who demonstrate sufficient ability on a standard wind or percussion instrument and perform a significant leadership role in the ensemble. May be repeated for credit.

OR

7 Semesters:

MUS 250 - Orchestra

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard orchestral instrument. May be repeated for credit.

MUS 450 - Orchestra

1 Credit(s)

Open by audition to Junior and Senior students who perform a significant leadership role in the orchestra. Repertoire is selected from standard orchestral literature. May be repeated for credit.

OR

7 Semesters of any Choir Combination:

MUS 247 - Concert Choir

1 Credit(s)

Open to all qualified students with repertoire selected from the standard choral concert literature. May be repeated for credit.

MUS 447 - Concert Choir

1 Credit(s)

This course is open to all qualified juniors and seniors, regardless of major, who perform a significant leadership role in the ensemble. Repertoire is selected from standard choral concert literature, as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

AND/OR

MUS 257 - Chamber Choir

1 Credit(s)

An advanced mixed choral ensemble, open to students by audition. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

MUS 457 - Chamber Choir

1 Credit(s)

This course is an advanced mixed choral ensemble, open by audition to junior and senior students who perform a significant leadership role in the ensemble. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

Liberal Arts Emphasis Requirements

Completion of a minor of at least 18 semester hours outside the Music Department or 18 elective hours within the Music Department.

- MUS XXX - Upper-division music electives **3 Credit(s)**

Completion of both an upper-division jury exam and a piano proficiency exam

Bachelor of Arts in Music, Emphasis in Music Industry

Go to: Music

Entrance Requirements

New music majors and minors are required to complete an entrance audition for admittance to the Department of Music.

Placement Examinations

- Transfer and new students in music must take placement examinations as appropriate in applied music and music theory.
- Students who have not been enrolled in applied music or music theory for two or more years must reaudit for admittance into the Department of Music and take a theory placement exam.

Complete the Following

MUS 000 - Recital Attendance

0 Credit(s)

A requirement for music majors and minors, which consists of attendance at a designated number of concerts/recitals each semester.

MUS 103 - Introduction to Music Technology

1 Credit(s)

An introduction to music technology, covering a broad range of topics such as music notation, MIDI, music sequencing, mixing, and basic audio editing. The programs to be used include Finale, Garageband, and Audacity, and students compose music utilizing basic concepts of music fundamentals and music theory. The goal of this course is to equip students with music technology skills and knowledge that will be of benefit during their collegiate and professional careers.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 104 - Music Theory I

3 Credit(s)

Development of basic music skills and harmony with practical application through part-writing and composition.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 106 - Careers in the Music Industry

1 Credit(s)

The course provides a broad overview of the music industry, the career opportunities that are available, and effective methods of preparing for success in ones chosen career path.

MUS 108 - Aural Skills I

1 Credit(s)

Foundational work in sight singing and written dictation.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 204 - Music Theory II

3 Credit(s)

Advanced study in music writing and analysis with emphasis on tonal and chromatic harmony.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

MUS 208 - Aural Skills II

1 Credit(s)

Emphasis on sight singing in parts, more difficult keys and intervals, modulations, and rhythmic patterns in dictation.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

AND

MUS 108 Minimum Grade: C- OR T

Co-requisite(s): MUS 204

MUS 304 - Advanced Theory

3 Credit(s)

The study of advanced chromatic harmony and twentieth-century musical techniques through analysis and composition.

Prerequisite(s):

MUS 103 Minimum Grade: C- OR T

AND

MUS 104 Minimum Grade: C- OR T

AND

MUS 204 Minimum Grade: C- OR T

MUS 308 - Advanced Aural Skills

1 Credit(s)

Advanced sight singing and ear training, including harmonic and melodic dictation using chromatic intervals.

Prerequisite(s):

MUS 208 Minimum Grade: C- OR T

MUS 320 - Advanced Piano Class

1 Credit(s)

Advanced functional keyboard technique with emphasis on skills needed to fulfill the piano proficiency requirement.

Prerequisite(s):

MUS 220 Minimum Grade: C- OR T

MUS 327 - Music History II

3 Credit(s)

A detailed survey of music history from 1750 to the present.

Prerequisite(s):

MUS 100 Minimum Grade: C- OR T

AND

MUS 104 Minimum Grade: C- OR T

MUS 360 - Conducting Techniques

2 Credit(s)

Development of fundamental conducting skills, score reading skills, musical concepts, and terminology.

Prerequisite(s):

MUS 204 Minimum Grade: C- OR T

AND

MUS 208 Minimum Grade: C- OR T

Applied Area Options

a. Single Applied Area

MUS 140 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

MUS 141 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 140 Minimum Grade: D OR T

MUS 240 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 141 Minimum Grade: C- OR T

MUS 241 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 240 Minimum Grade: C- OR T

MUS 340 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 241 Minimum Grade: C- OR T

b. Multiple applied area (two - three applied areas possible)

First Instrument

MUS 140 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

MUS 141 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 140 Minimum Grade: D OR T

MUS 240 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 141 Minimum Grade: C- OR T

Second Instrument

MUS 140 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

MUS 141 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 140 Minimum Grade: D OR T

Large Ensemble Requirements

7 semesters:

MUS 245 - Concert Band

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard wind or percussion instrument. May be repeated for credit.

MUS 451 - Concert Band

1 Credit(s)

This course is open to all qualified juniors and seniors, regardless of majors field, who demonstrate sufficient ability on a standard wind or percussion instrument and perform a significant leadership role in the ensemble. May be repeated for credit.

OR

7 Semesters:

MUS 250 - Orchestra

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard orchestral instrument. May be repeated for credit.

MUS 450 - Orchestra

1 Credit(s)

Open by audition to Junior and Senior students who perform a significant leadership role in the orchestra. Repertoire is selected from standard orchestral literature. May be repeated for credit.

OR

7 Semesters of any Choir Combination:

MUS 247 - Concert Choir

1 Credit(s)

Open to all qualified students with repertoire selected from the standard choral concert literature. May be repeated for credit.

MUS 447 - Concert Choir

1 Credit(s)

This course is open to all qualified juniors and seniors, regardless of major, who perform a significant leadership role in the ensemble. Repertoire is selected from standard choral concert literature, as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

AND/OR

MUS 257 - Chamber Choir

1 Credit(s)

An advanced mixed choral ensemble, open to students by audition. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

MUS 457 - Chamber Choir

1 Credit(s)

This course is an advanced mixed choral ensemble, open by audition to junior and senior students who perform a significant leadership role in the ensemble. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

Music Industry Core Courses

MUS 375 - Music Recording Techniques

3 Credit(s)

This course serves as an introduction to audio and MIDI recording techniques, with topics to be covered including digital audio recording, microphones and microphone setup, digital editing and mixing, audio effects such as compression, reverb, and EQ, MIDI recording, and film scoring techniques. There will be extensive use of the program Cubase in this course. The goal of this course is to provide students with the basic techniques and tools to use recording technology in their musical careers.

Prerequisite(s):

MUS 101: Minimum grade C- or T
and

MUS 103: Minimum grade C- or T
and

MUS 104 : Minimum grade C- or T

or

Instructor Permission

MUS 376 - Topics in Music Business

3 Credit(s)

Topics in Music Business will introduce students to the business aspects of the music industry including market and promotion, copyright law, publishing, contracts, licensing, management, concert promotion and production, profit and non-profit arts organizations, grant writing and fundraising.

MUS 377 - Music Industry Internship

3 Credit(s)

This course is designed to provide practical experience for advanced students in the Music Industry emphasis. Students will further develop competencies in business or recording related areas of the industry while providing practical application of theories, techniques, and concepts discussed in other courses. Students are required to be successfully admitted to upper divisional study, and Senior Standing (90 more hours completed). An approved Internship Application and current resume/references will also be submitted prior to registering in this class.

Prerequisite(s):

MUS 103 C-, MUS 375 C-, MUS 376 C-, MUS 378 C- Permission of Instructor.

MUS 378 - Music Recording Seminar

2 Credit(s)

This course is a project-based course with focus on discussion of projects, recording and mixing techniques, and critical listening to recordings. Students will work on semester-long recording projects in the ASU recording studio and participate in class discussion on these projects..

Prerequisite(s):

MUS 103 Minimum Grade: C- OR T
AND

MUS 375 Minimum Grade: C- OR T

MUS 476 - Music Business Capstone

2 Credit(s)

The course will provide specialized focus and instruction on a project relating to music business and/or recording that aligns with the student's desired career path.

Prerequisite(s):

MUS 103 Minimum Grade: C-

Business Core Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

Complete 2 of the Following Courses

NOTE: MUS 380 and MUS 381 are 1 credit courses and therefore must both be taken in order to count as one course

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

COMM 275 - News Writing and Criticism

3 Credit(s)

Inverted pyramid print writing and basic broadcast writing are covered in this course. Additionally, students critique, discuss, and analyze current print and broadcasting media conventions, ethics, and procedures.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

COMM 280 - Visual Literacy

3 Credit(s)

This course will decode the messages behind visual communication by covering concepts of photography, television, film, digital imagery, social media, video games, etc. Students will interrogate visual meaning, and even create visual messages using standard industry practices.

Prerequisite(s):

ENG 102 Minimum Grade: C-

COMM 360 - Media Management

3 Credit(s)

Students learn how various media organizations are managed and operated, with a specific focus on radio and television. Various management structures are also explored.

Prerequisite(s):

COMM 293 Minimum Grade: C- OR T

CSCI 104 - Fundamentals of Programming

3 Credit(s)

This course is the first course in the introductory programming sequence for computer science and information technology majors, but is suitable for non-majors interested in getting a taste of computer programming. The course covers program creation, basic control structures, variables, arithmetic expressions, functions, parameters, internal documentation, arrays and strings.

MUS 333 - Form and Analysis

2 Credit(s)

This course examines the principal musical forms and structural elements of music from the Baroque period through the present. While the majority of the course covers western classical music and composers, forms in pop and rock music will also be covered. Students will be introduced to a variety of approaches and philosophies of musical analysis, accomplished through listening and analysis of musical repertoire. A principal outcome of this course is an increased awareness of the elements of musical form and how they are important in developing insight, understanding, and interpretation of a musical work.

Prerequisite(s):

MUS 304 Minimum Grade: C- or T

AND

MUS 308 Minimum Grade: C- or T

MUS 380 - Commercial Music Composition and Production I

1 Credit(s)

The course will provide seminar-like instruction in commercial music composition (pop, rock, R&B, etc...) and production techniques. Students will work individually or in groups in the ASU recording studio on completing at least one finished composition and recording.

Prerequisite(s):

MUS 103 Minimum Grade: C-

AND

MUS 375 Minimum Grade: C-

AND

MUS 378 Minimum Grade: C-

MUS 381 - Commercial Music Composition and Production II

1 Credit(s)

This course will provide seminar-like instruction in commercial music composition (pop, rock, R&B, etc.), music

production techniques, and composing for film trailers and video games. Students will work individually or in groups in the ASU recording studio on completing two film and video game projects and one individual composition and recording in a genre of the students choice.

Prerequisite(s):

MUS 103 Minimum Grade: C- OR T
AND

MUS 375 Minimum Grade: C- OR T

AND

MUS 378 Minimum Grade: C- OR T

MUS 326 - Music History I

3 Credit(s)

A detailed survey of music history from antiquity to 1750.

Prerequisite(s):

MUS 100 Minimum Grade: C- OR T
AND

MUS 104 Minimum Grade: C- OR T

THTR 205 - Improvisational Acting

3 Credit(s)

This course is an introduction to improvisation as a form of comedy entertainment. Both short and long form will be covered. Completion of this course is a prerequisite for membership in the Adams State University Improvisation Troupe.

THTR 210 - Stage Makeup

3 Credit(s)

Fundamental elements of design and application of theatre makeup. Painted theatrical makeup, latex, crepe hair, putty wax, prosthetics, and simulated physical trauma will be executed in this course.

THTR 223 - Acting

3 Credit(s)

An introduction to the art of performing using the Stanislavski system of acting. Classes will consist primarily of in-class activities designed to demonstrate acting concepts and principles. This course requires active participation in discussions, exercises, and the presentation of performances.

THTR 285 - Production Management

3 Credit(s)

This course presents information, materials, experiences, and projects that will lead students to an understanding of the functions of technical direction and stage and theatre management. It will teach students to become practicing, problem solving technical directors, stage managers and house managers.

Prerequisite(s):

THTR 251 Minimum Grade: C-

THTR 334 - Lighting Design

3 Credit(s)

This is an introductory-level, actively intensive, practical workshop, lecture, & discussion based class examining the tools, materials, skills and practices of lighting design, while developing creative thinking and visual communication techniques for the theatre designer. The emphasis of the class is on the creative process, from conceptualization to the execution and presentation of the design idea, with a major focus being the exploration and practical application of the Controllable Qualities of Light, Functions of Stage Light, and Designing with Light, and producing the Lighting plot and related paperwork.

Complete Both an Upper-Division Jury Exam and a Piano Proficiency Exam

Bachelor of Arts in Music, Emphasis in Performance

Go to: Music

Entrance Requirements

New music majors and minors are required to complete an entrance audition for admittance to the Department of Music.

Placement Examinations

- Transfer and new students in music must take placement examinations as appropriate in applied music and music theory.
- Students who have not been enrolled in applied music or music theory for two or more years must reaudition for admittance into the Department of Music and take a theory placement exam.

Completion of the Following

MUS 000 - Recital Attendance

0 Credit(s)

A requirement for music majors and minors, which consists of attendance at a designated number of concerts/recitals each semester.

MUS 103 - Introduction to Music Technology

1 Credit(s)

An introduction to music technology, covering a broad range of topics such as music notation, MIDI, music sequencing, mixing, and basic audio editing. The programs to be used include Finale, Garageband, and Audacity, and students compose music utilizing basic concepts of music fundamentals and music theory. The goal of this course is to equip students with music technology skills and knowledge that will be of benefit during their collegiate and professional careers.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 104 - Music Theory I

3 Credit(s)

Development of basic music skills and harmony with practical application through part-writing and composition.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 106 - Careers in the Music Industry

1 Credit(s)

The course provides a broad overview of the music industry, the career opportunities that are available, and effective methods of preparing for success in ones chosen career path.

MUS 108 - Aural Skills I

1 Credit(s)

Foundational work in sight singing and written dictation.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 140 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

MUS 141 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 140 Minimum Grade: D OR T

MUS 204 - Music Theory II

3 Credit(s)

Advanced study in music writing and analysis with emphasis on tonal and chromatic harmony.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

MUS 208 - Aural Skills II

1 Credit(s)

Emphasis on sight singing in parts, more difficult keys and intervals, modulations, and rhythmic patterns in dictation.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

AND

MUS 108 Minimum Grade: C- OR T

Co-requisite(s): MUS 204

MUS 240 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 141 Minimum Grade: C- OR T

MUS 241 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 240 Minimum Grade: C- OR T

MUS 304 - Advanced Theory

3 Credit(s)

The study of advanced chromatic harmony and twentieth-century musical techniques through analysis and composition.

Prerequisite(s):

MUS 103 Minimum Grade: C- OR T
AND

MUS 104 Minimum Grade: C- OR T

AND

MUS 204 Minimum Grade: C- OR T

MUS 308 - Advanced Aural Skills

1 Credit(s)

Advanced sight singing and ear training, including harmonic and melodic dictation using chromatic intervals.

Prerequisite(s):

MUS 208 Minimum Grade: C- OR T

MUS 320 - Advanced Piano Class

1 Credit(s)

Advanced functional keyboard technique with emphasis on skills needed to fulfill the piano proficiency requirement.

Prerequisite(s):

MUS 220 Minimum Grade: C- OR T

MUS 326 - Music History I

3 Credit(s)

A detailed survey of music history from antiquity to 1750.

Prerequisite(s):

MUS 100 Minimum Grade: C- OR T
AND

MUS 104 Minimum Grade: C- OR T

MUS 327 - Music History II

3 Credit(s)

A detailed survey of music history from 1750 to the present.

Prerequisite(s):

MUS 100 Minimum Grade: C- OR T
AND

MUS 104 Minimum Grade: C- OR T

MUS 333 - Form and Analysis

2 Credit(s)

This course examines the principal musical forms and structural elements of music from the Baroque period through the present. While the majority of the course covers western classical music and composers, forms in pop and rock music will also be covered. Students will be introduced to a variety of approaches and philosophies of musical analysis, accomplished through listening and analysis of musical repertoire. A principal outcome of this course is an increased awareness of the elements of musical form and how they are important in developing insight, understanding, and interpretation of a musical work.

Prerequisite(s):

MUS 304 Minimum Grade: C- or T
AND

MUS 308 Minimum Grade: C- or T

MUS 340 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 241 Minimum Grade: C- OR T

MUS 341 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 340 Minimum Grade: C- OR T

MUS 360 - Conducting Techniques

2 Credit(s)

Development of fundamental conducting skills, score reading skills, musical concepts, and terminology.

Prerequisite(s):

MUS 204 Minimum Grade: C- OR T
AND

MUS 208 Minimum Grade: C- OR T

Large Ensemble Requirements

7 semesters:

MUS 245 - Concert Band

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard wind or percussion instrument. May be repeated for credit.

MUS 451 - Concert Band

1 Credit(s)

This course is open to all qualified juniors and seniors, regardless of majors field, who demonstrate sufficient ability on a standard wind or percussion instrument and perform a significant leadership role in the ensemble. May be repeated for credit.

OR

7 Semesters:

MUS 250 - Orchestra

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard orchestral instrument. May be repeated for credit.

MUS 450 - Orchestra

1 Credit(s)

Open by audition to Junior and Senior students who perform a significant leadership role in the orchestra. Repertoire is selected from standard orchestral literature. May be repeated for credit.

OR

7 Semesters of any Choir Combination:

MUS 247 - Concert Choir

1 Credit(s)

Open to all qualified students with repertoire selected from the standard choral concert literature. May be repeated for credit.

MUS 447 - Concert Choir

1 Credit(s)

This course is open to all qualified juniors and seniors, regardless of major, who perform a significant leadership role in the ensemble. Repertoire is selected from standard choral concert literature, as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

AND/OR

MUS 257 - Chamber Choir

1 Credit(s)

An advanced mixed choral ensemble, open to students by audition. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

MUS 457 - Chamber Choir

1 Credit(s)

This course is an advanced mixed choral ensemble, open by audition to junior and senior students who perform a significant leadership role in the ensemble. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

Performance Requirements

MUS 345 - Junior Recital

1 Credit(s)

Preparation and presentation of a public recital of approximately one-half hour of music.

Prerequisite(s):

MUS 340 Minimum Grade: C- OR T
OR

MUS 341 Minimum Grade: C- OR T

Co-requisite(s): MUS 341

MUS 440 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (four hours maximum).

Prerequisite(s):

MUS 341 Minimum Grade: C- OR T
AND

MUS 345 Minimum Grade: C- OR T

MUS 441 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (four hours maximum).

Prerequisite(s):

MUS 345 Minimum Grade: C- OR T
AND

MUS 440 Minimum Grade: C- OR T

MUS 445 - Senior Recital

2 Credit(s)

Preparation and presentation of a public recital of approximately forty-five minutes of music. Must be taken concurrently with MUS 440 or MUS 441.

Prerequisite(s):

MUS 440 Minimum Grade: C- OR T
AND

MUS 441 Minimum Grade: C- OR T

MUS 376 - Topics in Music Business

3 Credit(s)

Topics in Music Business will introduce students to the business aspects of the music industry including market and promotion, copyright law, publishing, contracts, licensing, management, concert promotion and production, profit and non-profit arts organizations, grant writing and fundraising.

Completion of ONE of the Following Areas of Specialization

Instrumental

MUS 427 - Instrumental Lit and Pedagogy

3 Credit(s)

Historical survey of the student's own instrumental category (either woodwinds, brass, percussion, guitar or strings) and a study of the pedagogical techniques for that instrumental category.

MUS 449 - Chamber Music

1 Credit(s)

Selected groups including instrumental, vocal and mixed ensemble for performance of music in specific periods and mediums, open by audition to junior and senior students who perform a significant leadership role in the ensemble. May be repeated for credit.

- MUS XXX Upper-division music electives **5 Credit(s)**

Piano

MUS 364 - Accompanying Practicum I

2 Credit(s)

Training for the advanced pianist in vocal and instrumental accompanying skills, and related skills for dance accompanying.

Prerequisite(s):

MUS 241 Minimum Grade: C- OR T

MUS 365 - Accompanying Practicum II

2 Credit(s)

Training for the advanced pianist in vocal and instrumental accompanying skills, and related skills for dance accompanying.

Prerequisite(s):

MUS 364 Minimum Grade: C- OR T

MUS 428 - Piano Literature and Pedagogy

3 Credit(s)

Historical survey of the repertoire for piano and a study of pedagogical techniques for the piano.

MUS 449 - Chamber Music

1 Credit(s)

Selected groups including instrumental, vocal and mixed ensemble for performance of music in specific periods and mediums, open by audition to junior and senior students who perform a significant leadership role in the ensemble. May be repeated for credit.

- MUS XXX Upper-division Music Electives **3 Credit(s)**

Voice

MUS 429 - Voice Literature and Pedagogy

3 Credit(s)

A study of pedagogical techniques and vocal problems and the assignments of appropriate literature. A survey of materials include treatises, technique books, physiological books, repertoire, and other areas relevant to singing and to the teaching of singing.

MUS 426 - Song Literature

3 Credit(s)

Historic survey of the art of song.

MUS 252 - Music Theatre Workshop

1 Credit(s)

The study and production of musical theatre and opera repertoire appropriate for educational theatre. May be repeated for credit.

MUS 226 - Lyric Diction I

3 Credit(s)

A study of lyric diction and phonetic transcriptions of languages common to standard vocal repertoire. The course includes English, German, Spanish, and an introduction to the International Phonetic Alphabet.

MUS 227 - Lyric Diction II

3 Credit(s)

A study of lyric diction and phonetic transcriptions of languages common to standard vocal repertoire. The course includes Ecclesiastical Latin, Italian, French, and an introduction to the International Phonetic Alphabet.

- MUS XXX Upper-division music electives **2 Credit(s)**

Completion of both an Upper-Division Jury Exam and a Piano Proficiency Exam

Bachelor of Arts in Outdoor Education and Stewardship, Adventure Education Emphasis

Go to: Outdoor Education and Stewardship

Specific courses required for this degree:

Outdoor Education and Stewardship Core Courses (31 Credits)

OES 101 - Outdoor Recreation Essentials

3 Credit(s)

This course is a general introduction to outdoor recreation history, theories, natural resource management, and current trends in the outdoor recreation industry. Students are also introduced to essential outdoor skills for camping and backpacking including trip planning, equipment selection and care, food preparation, Leave No Trace environmental ethics, and risk management. Field trips are required including overnight trips.

OES 200 - Foundations of Outdoor Leadership

3 Credit(s)

This course is an overview of the history, theories, concepts, and practices that constitute outdoor leadership professional practice. Students learn a competency based approach to the development of an outdoor leader. Topics include historical and philosophical foundations of outdoor recreation and education, theories of leadership, judgment and decision making, teaching and facilitation, safety and risk management, and environmental stewardship. Field trips are required.

OES 261 - Outdoor Leadership Expedition

6 Credit(s)

This course is a field immersion experience to develop and practice outdoor leadership. Students participate in a two week backpacking expedition to learn and apply principles and strategies for minimum impact environmental ethics, risk management, teaching, and leadership. Field trips required.

Prerequisite(s):

OES 200 Minimum Grade: C-

KIN 266 - Wilderness First Aid (WFA)

1 Credit(s)

The course is designed to introduce you to the concepts of medical care in a wilderness setting. The course focuses on Basic Life Support skills, minor trauma, selected environmental topics, spine assessment and the ruling out process, allergic and toxic reactions, and "common" medical emergencies.

OES 269 - Observing Nature

3 Credit(s)

Through field experiences both on campus and off, students learn to carefully observe the natural environment, identify local flora and fauna, and keep a naturalists field journal. Meets once a week for 2 hours. Field trips are required.

OES 367 - Experiential Learning and Facilitation

3 Credit(s)

This course explores the intersectionality of various disciplines that have influenced the field of experiential education. Students will consider distinctions between teaching and facilitation, wrestle with the challenges posed by the learning process, investigate the complexities involved in change and conflict, and develop skills for facilitating individual growth and group development. Additionally, students will practice facilitating group games, initiatives, meetings, challenges and other activities that focus on intrapersonal and interpersonal growth and development.

Prerequisite(s):

OES 200 Minimum Grade: C-

OES 370 - Wildland Recreation Management

2 Credit(s)

This course immerses students into the field of recreation ecology. Hands-on experience participating in local stewardship projects with federal and state agencies will be a component of the course. Students will gain knowledge and experience with how agencies and organizations identify recreational impact oriented problems, collect data, prioritize, allocate resources, and collaborate to accomplish conservation and stewardship objectives. Students will practice with professional approaches and strategies for planning and monitoring recreational use. Students are required to participate in a variety of learning experiences in various locations throughout the San Luis Valley.

Co-requisite(s): OES 370L

OES 370L - Wildland Recreation Management Field Lab

1 Credit(s)

This is the field based lab for OES 370. Students will travel off-campus to various sites for field application of course content, meeting with land managers, and conducting research.

Co-requisite(s): OES 370

OES 450 - Program Design and Management

3 Credit(s)

To manage an outdoor program, outdoor leaders must add to their field based competencies and experience specific skill sets for effective oversight, support, and leadership. Program managers are responsible for a variety of critical administrative functions that ultimately lead to the effective delivery and risk management of outdoor programs. Students in this course will begin developing their administrative competencies including program design, risk management, budgeting, permitting, staff training, program assessment, incident response and more.

Prerequisite(s):

OES 200 Minimum Grade: C-
AND

OES 367 Minimum Grade: C-

OES 451 - Outdoor Education and Stewardship Internship

3 Credit(s)

To enhance and apply program skills, students will complete a 400-hour internship. To receive credit, students must document their hours and complete required internship assignments. Approval of internship by instructor is required.

Prerequisite(s):

OES 450 Minimum Grade: C-

OES 480 - Capstone Seminar in Outdoor Education and Stewardship

3 Credit(s)

In this course students will complete a signature project that demonstrates the culmination of their program work and experiences. During the course students will also investigate emergent trends, issues, and challenges related to outdoor education and recreation. Students will select a project of interest with the assistance of a faculty member. Project types include curriculum development, program design, original research, or volunteer service project. Students will also

finalize and submit their ePortfolio.

Prerequisite(s):

OES 450 Minimum Grade: C-

AND

OES 451 Minimum Grade: C-

Environmental Science Courses (17 Credits)

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 212 - Natural Resource Management on Public Lands

3 Credit(s)

This course will examine public lands management from both a theoretical and descriptive perspective. The major political forces affecting public lands, and the specific details of energy policy, forests, rangelands, national parks, and wildlife on public lands are discussed.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

OR

BIOL 330 Minimum Grade: C-

GSCI 307 - Bio-Geography

3 Credit(s)

The course builds upon topics introduced in the introductory physical geography and general biology courses and synthesizes concepts addressed in other upper-division courses dealing with vegetation science, climatology, soil, historical geology, ecology, and evolution to explain patterns and processes influencing past and present distributions of organisms.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

AND

BIOL 209 Minimum Grade: C-

BIOL 314 - Conservation Biology

3 Credit(s)

Conservation biology is the study of how to preserve the world's biological and genetic diversity while maintaining functional ecosystems. The course will explore these issues using an integrated approach with emphasis on identifying ways that wildlife and humans can sustainably coexist.

Prerequisite(s):

BIOL 330 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T
AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

People and Culture Requirements (6 Credits)

ENG 420 - Environmental Literature

3 Credit(s)

This course is a survey of environmental literature poetry, fiction, and non-fiction spanning from the beginning of the conservation movement with Thoreau through the modern environmental movement with Carson, and to the present day with a focus on sustainability and the Southwestern United States with attention paid to the environmental impacts on indigenous populations and minority groups and authors, particularly Latinx. Students will analyze, criticize, reflect, and write about the reading, but also reflect upon field visits to farms, ranches, monuments, and parks throughout the region.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

ADVENTURE RECREATION EMPHASIS (17 Credits Total)

4 Credits of:

Outdoor Skill Electives

OES 122 - Introduction to Canoeing and Stand-up Paddleboard (SUP)

1 Credit(s)

This course is designed to give students a foundation of skills for running non-whitewater rivers in a canoe or Stand-up Paddleboard (SUP). Students will learn basic paddling skills, river reading, equipment selection and use, and rescue techniques.

OES 123 - Introduction to Mountain Biking

1 Credit(s)

This course will provide students the fundamental skills necessary to ride a mountain bike. Participants will go through all of the beginner and intermediate skills required to handle a mountain bike as well as learn how to assess and navigate various terrain.

OES 124 - Introduction to Kayaking

1 Credit(s)

This course is designed to give students the fundamental skills for running class II rivers in a whitewater kayak. Students will learn basic paddling skills, river reading, equipment selection, and rescue techniques.

OES 125 - Winter Recreation Essentials

1 Credit(s)

This course introduces students to the essential knowledge and skills for winter travel and camping. Students will learn techniques for setting up camp and living outside in the snow giving student's confidence in their ability to enjoy recreation in the winter environment. Field trip is required.

OES 126 - Introduction to Ice Climbing

1 Credit(s)

This course is an introduction to the techniques, concepts, and practices of ice climbing. Students will learn basic skills including proper clothing selection, ice climbing equipment use and maintenance, route selection, and the fundamentals of movement on ice. Field trip required.

Prerequisite(s):

OES 121 Minimum Grade: P

OES 127 - Trail Stewardship

1 Credit(s)

This course is an introduction to the techniques, concepts, and practices of trail stewardship. Participation in a local volunteer trail project will be a primary part of this course.

OES 310 - Snow Mountaineering

1 Credit(s)

This course is an introduction to climbing in the alpine environment. Students learn skills and techniques for travel on snow and in 3rd and 4th class terrain. Field trips are required.

Prerequisite(s):

OES 264 Minimum Grade: C-

AND

OES 265 Minimum Grade: C-

AND

OES 327 Minimum Grade: C-

AND

KIN 266 Minimum Grade: P

6 Credits of:

Outdoor Education and Stewardship Discipline Courses

OES 263 - Mountain Biking

2 Credit(s)

This intermediate level course provides students with an in-depth understanding of riding skills essential for more advanced riding. This course will cover mountain bike riding techniques, safety and risk management, maintenance, bike packing, and other intermediate to advanced biking skills. Field trips are required.

Prerequisite(s):

OES 123 Minimum Grade: P

OES 264 - Rock Climbing

2 Credit(s)

This course will build upon basic rock climbing skills and introduce a variety of techniques and systems to expand the climbers skill sets. Topics include climber safety, Leave No Trace for climbers, trip and route planning, equipment selection, protection and anchors, lead climbing, rappelling, 3rd and 4th class terrain, transitions, and basic assistance and rescue skills. Field trips are required.

Prerequisite(s):

OES 121 Minimum Grade: P

OES 265 - Ice Climbing

2 Credit(s)

This course will build upon basic ice climbing skills and introduce a variety of techniques and systems to expand the climbers skill sets. Topics include climber safety, Leave No Trace for ice climbers, trip and route planning, equipment selection and maintenance, protection and anchors, following and lead ice, rappelling, 3rd and 4th class terrain, transitions, and basic assistance and rescue skills. Field trips are required.

Prerequisite(s):

OES 126 Minimum Grade: C

OES 270 - Whitewater Kayaking

2 Credit(s)

This course will cover whitewater skills for kayaking for rivers up to class III/IV whitewater. Course includes topics on boater safety, equipment use and care, paddling strokes and maneuvers, reading the river, setup of rapids, rescue skills, planning river trips, planning kayaking trips. Field trips are required.

Prerequisite(s):

OES 124 Minimum Grade: P

OES 330 - Advanced Technical Course

2 Credit(s)

The advanced technical course builds upon a students activity and site management skills. Students will advance their skills in a particular discipline learning more advanced techniques and systems and challenging their abilities. Topics will vary each semester between rock climbing, paddle sports, alpine climbing, canyoneering, bike packing, and ski mountaineering. Instructor approval required. Field Trips Required

Prerequisite(s):

OES 261 Minimum Grade: C-

7 Credits of:

Site Management Courses

OES 262 - Climbing Wall Instructor

1 Credit(s)

The Climbing Wall Instructor Course provides students with an in-depth and standardized understanding of the skills essential to teaching climbing in an indoor setting. It is the first step in a sequential approach to professional climbing instructor development. The course reinforces the importance of teaching technically accurate information and debunks many common climbing myths. The course emphasizes the presentation of sound fundamental skills to climbing gym participants, the formation of risk assessment and risk management skills and basic problem-solving skills such as belay transitions and on wall coaching and assist techniques.

Prerequisite(s):

OES 121 Minimum Grade: C-

OES 327 - Snowpack and Terrain Assessment

3 Credit(s)

This course will introduce students to the complex decision-making required for navigating and recreating in the winter. This course includes topics on proper winter clothing and equipment, equipment use and care, avalanche terrain assessment, snowpack assessment, stability tests, avalanche forecasting, and companion rescue. Field trips are required.

Prerequisite(s):

OES 125 Minimum Grade: P

AND

OES 261 Minimum Grade: C-

OES 331 - Climbing Site Management

3 Credit(s)

This course develops students capabilities as instructors for rock and ice climbing programs. Emphasis is placed on the management of top-rope climbing sites and providing instruction for both rock and ice climbing. The course includes topics on technical systems, assistance and rescue skills, risk management for climbing sites, teaching climbing movement and basic skills, and assessment. Students will practice designing and leading climbing experiences in a variety of locations for rock and ice climbing. Field trips are required.

OES 332 - Paddle Sports Site Mngmnt

3 Credit(s)

This course will cover the management and instruction of whitewater paddling on rivers up to class III. Course includes topics on boater safety, equipment use and care, paddling strokes and maneuvers, reading the river, setup of rapids, rescue skills, planning river trips, designing paddling experiences, and managing clients. Field trips are required.

OES 333 - Outfitter and Guide Site Management

3 Credit(s)

This course will cover the application of program design and management skills to outfitting and guiding for hunting and fishing operations. Course includes content related to guide and client safety, equipment use and care, navigation, weather assessment, emergency response, trip planning and logistics, regulations and permitting, and maximizing client rewards. Field trips are required.

Prerequisite(s):

OES 200 Minimum Grade: C OR T

AND

OES 261 Minimum Grade: C OR T

Required Support Courses for Outdoor Education and Stewardship (9 Credits)

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18

Completion of Required Certification Course

- Wilderness First Responder

Total Credit Hours: 71

Bachelor of Arts in Outdoor Education and Stewardship, Environmental Education Emphasis

Go to: Outdoor Education and Stewardship

Outdoor Education and Stewardship Core Courses (31 Credits)

OES 101 - Outdoor Recreation Essentials

3 Credit(s)

This course is a general introduction to outdoor recreation history, theories, natural resource management, and current trends in the outdoor recreation industry. Students are also introduced to essential outdoor skills for camping and backpacking including trip planning, equipment selection and care, food preparation, Leave No Trace environmental ethics, and risk management. Field trips are required including overnight trips.

OES 200 - Foundations of Outdoor Leadership

3 Credit(s)

This course is an overview of the history, theories, concepts, and practices that constitute outdoor leadership

professional practice. Students learn a competency based approach to the development of an outdoor leader. Topics include historical and philosophical foundations of outdoor recreation and education, theories of leadership, judgment and decision making, teaching and facilitation, safety and risk management, and environmental stewardship. Field trips are required.

OES 261 - Outdoor Leadership Expedition

6 Credit(s)

This course is a field immersion experience to develop and practice outdoor leadership. Students participate in a two week backpacking expedition to learn and apply principles and strategies for minimum impact environmental ethics, risk management, teaching, and leadership. Field trips required.

Prerequisite(s):

OES 200 Minimum Grade: C-

KIN 266 - Wilderness First Aid (WFA)

1 Credit(s)

The course is designed to introduce you to the concepts of medical care in a wilderness setting. The course focuses on Basic Life Support skills, minor trauma, selected environmental topics, spine assessment and the ruling out process, allergic and toxic reactions, and "common" medical emergencies.

OES 269 - Observing Nature

3 Credit(s)

Through field experiences both on campus and off, students learn to carefully observe the natural environment, identify local flora and fauna, and keep a naturalists field journal. Meets once a week for 2 hours. Field trips are required.

OES 367 - Experiential Learning and Facilitation

3 Credit(s)

This course explores the intersectionality of various disciplines that have influenced the field of experiential education. Students will consider distinctions between teaching and facilitation, wrestle with the challenges posed by the learning process, investigate the complexities involved in change and conflict, and develop skills for facilitating individual growth and group development. Additionally, students will practice facilitating group games, initiatives, meetings, challenges and other activities that focus on intrapersonal and interpersonal growth and development.

Prerequisite(s):

OES 200 Minimum Grade: C-

OES 370 - Wildland Recreation Management

2 Credit(s)

This course immerses students into the field of recreation ecology. Hands-on experience participating in local stewardship projects with federal and state agencies will be a component of the course. Students will gain knowledge and experience with how agencies and organizations identify recreational impact oriented problems, collect data,

prioritize, allocate resources, and collaborate to accomplish conservation and stewardship objectives. Students will practice with professional approaches and strategies for planning and monitoring recreational use. Students are required to participate in a variety of learning experiences in various locations throughout the San Luis Valley.

Co-requisite(s): OES 370L

OES 370L - Wildland Recreation Management Field Lab

1 Credit(s)

This is the field based lab for OES 370. Students will travel off-campus to various sites for field application of course content, meeting with land managers, and conducting research.

Co-requisite(s): OES 370

OES 450 - Program Design and Management

3 Credit(s)

To manage an outdoor program, outdoor leaders must add to their field based competencies and experience specific skill sets for effective oversight, support, and leadership. Program managers are responsible for a variety of critical administrative functions that ultimately lead to the effective delivery and risk management of outdoor programs. Students in this course will begin developing their administrative competencies including program design, risk management, budgeting, permitting, staff training, program assessment, incident response and more.

Prerequisite(s):

OES 200 Minimum Grade: C-
AND

OES 367 Minimum Grade: C-

OES 451 - Outdoor Education and Stewardship Internship

3 Credit(s)

To enhance and apply program skills, students will complete a 400-hour internship. To receive credit, students must document their hours and complete required internship assignments. Approval of internship by instructor is required.

Prerequisite(s):

OES 450 Minimum Grade: C-

OES 480 - Capstone Seminar in Outdoor Education and Stewardship

3 Credit(s)

In this course students will complete a signature project that demonstrates the culmination of their program work and experiences. During the course students will also investigate emergent trends, issues, and challenges related to outdoor education and recreation. Students will select a project of interest with the assistance of a faculty member. Project types include curriculum development, program design, original research, or volunteer service project. Students will also finalize and submit their ePortfolio.

Prerequisite(s):

OES 450 Minimum Grade: C-
AND

OES 451 Minimum Grade: C-

Environmental Science Courses (17 Credits)

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T
OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 212 - Natural Resource Management on Public Lands

3 Credit(s)

This course will examine public lands management from both a theoretical and descriptive perspective. The major political forces affecting public lands, and the specific details of energy policy, forests, rangelands, national parks, and wildlife on public lands are discussed.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

OR

BIOL 330 Minimum Grade: C-

GSCI 307 - Bio-Geography

3 Credit(s)

The course builds upon topics introduced in the introductory physical geography and general biology courses and synthesizes concepts addressed in other upper-division courses dealing with vegetation science, climatology, soil, historical geology, ecology, and evolution to explain patterns and processes influencing past and present distributions of organisms.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

AND

BIOL 209 Minimum Grade: C-

BIOL 314 - Conservation Biology

3 Credit(s)

Conservation biology is the study of how to preserve the world's biological and genetic diversity while maintaining functional ecosystems. The course will explore these issues using an integrated approach with emphasis on identifying ways that wildlife and humans can sustainably coexist.

Prerequisite(s):

BIOL 330 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T
AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

People and Culture Requirements (6 Credits)

ENG 420 - Environmental Literature

3 Credit(s)

This course is a survey of environmental literature poetry, fiction, and non-fiction spanning from the beginning of the conservation movement with Thoreau through the modern environmental movement with Carson, and to the present day with a focus on sustainability and the Southwestern United States with attention paid to the environmental impacts on indigenous populations and minority groups and authors, particularly Latinx. Students will analyze, criticize, reflect, and write about the reading, but also reflect upon field visits to farms, ranches, monuments, and parks throughout the region.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

ENVIRONMENTAL EDUCATION EMPHASIS (17 Credits total)

Additional Environmental Science Courses (9 Credits)

A minimum of 1 course from each prefix is required:

BIOL 467 - Wildlife Management

3 Credit(s)

Study of the ecological foundation, historical development, techniques, and current perspectives and challenges in wildlife management. Emphasis will be on the application of scientific management of game and non-game animals, their habitats, and managing human use of wildlife. Course includes three hours of lecture per week and is offered during fall term of even-numbered years. MATH 205 is recommended.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T
AND

BIOL 325 Minimum Grade: C- OR T
AND

BIOL 330 Minimum Grade: C- OR T
AND

BIOL 332 Minimum Grade: C- OR T
OR

BIOL 330 Minimum Grade: C- OR T
AND

GSCI 212 Minimum Grade: C- OR T OR

BIOL 468 - Vegetation/Habitat Management

3 Credit(s)

A study of the composition, structure and productivity of vegetation with emphasis on ecological applications in creating and managing wildlife habitat.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

OR

BIOL 330 Minimum Grade: C- OR T

AND

GEOG 212 Minimum Grade: C- OR T

BIOL 469 - Fisheries Management

3 Credit(s)

A study of the ecological foundation, historical development, techniques, and current perspectives and challenges in inland fisheries management. Emphasis will be on the application of scientific management of fishes, their habitats, and managing human use of inland fisheries. Fisheries Management does not include a separate laboratory section, but will include various field trips to give students the opportunity to observe and apply management techniques discussed in class.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BUS 384 - Natural Resources/Water Law

3 Credit(s)

The goal of this course is to provide students with knowledge of the regulatory responsibilities related to agriculture production and operations with respect to natural resources and water. The course will cover federal, state, and local requirements as well as application to agribusiness endeavors.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 211 Minimum Grade: C- OR T

GSCI 201 - Introduction to Cartography and GIS

3 Credit(s)

This course will introduce students to the core concepts of Geographic Information Systems (GIS) and the importance and relevance of GIS in today's world. Students will learn what GIS is, what it is used for, and how to perform basic and core tasks involving GIS analysis. An objective is to help students develop the ability to think critically about cartographic processes and representations as well as develop their skills in creating maps. Students are expected to have basic computer proficiency prior to enrolling in this course.

GSCI 311 - Climatology

4 Credit(s)

This course examines the global patterns of climate and the processes that shape them. Particular attention is given to climate change mechanisms (past & present), human-induced changes to the climate system, and likely future climates. Field- and computer-based methodology relevant to the field of climatology is also emphasized.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 330 - Nature and Properties of Soils

4 Credit(s)

This course analyzes soils as natural bodies and managed resources, focusing on impacts of landforms, hydrology, nutrients, and organisms on soils. The laboratory includes analysis of soil patterns, methods of sampling, and techniques of determining physical and chemical properties of soils. Course includes three hours of lecture and two hours of laboratory per week.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T
AND

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

GSCI 420 - Remote Sensing

4 Credit(s)

The course considers acquisition and interpretation of remote sensed environmental data, theory and sensors, and manual and computerized interpretation methods.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T
AND

GSCI 201 Minimum Grade: C- OR T

GSCI 440 - Groundwater

4 Credit(s)

This course explores the groundwater system and its relationship with surface water systems of rivers, lakes, and oceans.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620 and GSCI 112 Minimum Grade: C- or T

3 Credits from:

Outdoor Skill Electives

OES 122 - Introduction to Canoeing and Stand-up Paddleboard (SUP)

1 Credit(s)

This course is designed to give students a foundation of skills for running non-whitewater rivers in a canoe or Stand-up Paddleboard (SUP). Students will learn basic paddling skills, river reading, equipment selection and use, and rescue techniques.

OES 123 - Introduction to Mountain Biking

1 Credit(s)

This course will provide students the fundamental skills necessary to ride a mountain bike. Participants will go through all of the beginner and intermediate skills required to handle a mountain bike as well as learn how to assess and navigate various terrain.

OES 124 - Introduction to Kayaking

1 Credit(s)

This course is designed to give students the fundamental skills for running class II rivers in a whitewater kayak. Students will learn basic paddling skills, river reading, equipment selection, and rescue techniques.

OES 125 - Winter Recreation Essentials

1 Credit(s)

This course introduces students to the essential knowledge and skills for winter travel and camping. Students will learn techniques for setting up camp and living outside in the snow giving student's confidence in their ability to enjoy recreation in the winter environment. Field trip is required.

OES 126 - Introduction to Ice Climbing

1 Credit(s)

This course is an introduction to the techniques, concepts, and practices of ice climbing. Students will learn basic skills including proper clothing selection, ice climbing equipment use and maintenance, route selection, and the fundamentals of movement on ice. Field trip required.

Prerequisite(s):

OES 121 Minimum Grade: P

OES 127 - Trail Stewardship

1 Credit(s)

This course is an introduction to the techniques, concepts, and practices of trail stewardship. Participation in a local volunteer trail project will be a primary part of this course.

OES 310 - Snow Mountaineering

1 Credit(s)

This course is an introduction to climbing in the alpine environment. Students learn skills and techniques for travel on snow and in 3rd and 4th class terrain. Field trips are required.

Prerequisite(s):

OES 264 Minimum Grade: C-
AND

OES 265 Minimum Grade: C-
AND

OES 327 Minimum Grade: C-
AND

KIN 266 Minimum Grade: P

2 Credits from:

Outdoor Education and Stewardship Discipline Courses

OES 263 - Mountain Biking

2 Credit(s)

This intermediate level course provides students with an in-depth understanding of riding skills essential for more advanced riding. This course will cover mountain bike riding techniques, safety and risk management, maintenance, bike packing, and other intermediate to advanced biking skills. Field trips are required.

Prerequisite(s):

OES 123 Minimum Grade: P

OES 264 - Rock Climbing

2 Credit(s)

This course will build upon basic rock climbing skills and introduce a variety of techniques and systems to expand the climbers skill sets. Topics include climber safety, Leave No Trace for climbers, trip and route planning, equipment selection, protection and anchors, lead climbing, rappelling, 3rd and 4th class terrain, transitions, and basic assistance and rescue skills. Field trips are required.

Prerequisite(s):

OES 121 Minimum Grade: P

OES 265 - Ice Climbing

2 Credit(s)

This course will build upon basic ice climbing skills and introduce a variety of techniques and systems to expand the climbers skill sets. Topics include climber safety, Leave No Trace for ice climbers, trip and route planning, equipment selection and maintenance, protection and anchors, following and lead ice, rappelling, 3rd and 4th class terrain, transitions, and basic assistance and rescue skills. Field trips are required.

Prerequisite(s):

OES 126 Minimum Grade: C

OES 270 - Whitewater Kayaking

2 Credit(s)

This course will cover whitewater skills for kayaking for rivers up to class III/IV whitewater. Course includes topics on boater safety, equipment use and care, paddling strokes and maneuvers, reading the river, setup of rapids, rescue skills, planning river trips, planning kayaking trips. Field trips are required.

Prerequisite(s):

OES 124 Minimum Grade: P

OES 330 - Advanced Technical Course

2 Credit(s)

The advanced technical course builds upon a students activity and site management skills. Students will advance their skills in a particular discipline learning more advanced techniques and systems and challenging their abilities. Topics will vary each semester between rock climbing, paddle sports, alpine climbing, canyoneering, bike packing, and ski mountaineering. Instructor approval required. Field Trips Required

Prerequisite(s):

OES 261 Minimum Grade: C-

3 Credits from:

Site Management Courses

OES 262 - Climbing Wall Instructor

1 Credit(s)

The Climbing Wall Instructor Course provides students with an in-depth and standardized understanding of the skills essential to teaching climbing in an indoor setting. It is the first step in a sequential approach to professional climbing instructor development. The course reinforces the importance of teaching technically accurate information and debunks many common climbing myths. The course emphasizes the presentation of sound fundamental skills to climbing gym participants, the formation of risk assessment and risk management skills and basic problem-solving skills such as belay transitions and on wall coaching and assist techniques.

Prerequisite(s):

OES 121 Minimum Grade: C-

OES 327 - Snowpack and Terrain Assessment

3 Credit(s)

This course will introduce students to the complex decision-making required for navigating and recreating in the

winter. This course includes topics on proper winter clothing and equipment, equipment use and care, avalanche terrain assessment, snowpack assessment, stability tests, avalanche forecasting, and companion rescue. Field trips are required.

Prerequisite(s):

OES 125 Minimum Grade: P

AND

OES 261 Minimum Grade: C-

OES 331 - Climbing Site Management

3 Credit(s)

This course develops students capabilities as instructors for rock and ice climbing programs. Emphasis is placed on the management of top-rope climbing sites and providing instruction for both rock and ice climbing. The course includes topics on technical systems, assistance and rescue skills, risk management for climbing sites, teaching climbing movement and basic skills, and assessment. Students will practice designing and leading climbing experiences in a variety of locations for rock and ice climbing. Field trips are required.

OES 332 - Paddle Sports Site Mngmnt

3 Credit(s)

This course will cover the management and instruction of whitewater paddling on rivers up to class III. Course includes topics on boater safety, equipment use and care, paddling strokes and maneuvers, reading the river, setup of rapids, rescue skills, planning river trips, designing paddling experiences, and managing clients. Field trips are required.

OES 333 - Outfitter and Guide Site Management

3 Credit(s)

This course will cover the application of program design and management skills to outfitting and guiding for hunting and fishing operations. Course includes content related to guide and client safety, equipment use and care, navigation, weather assessment, emergency response, trip planning and logistics, regulations and permitting, and maximizing client rewards. Field trips are required.

Prerequisite(s):

OES 200 Minimum Grade: C OR T

AND

OES 261 Minimum Grade: C OR T

Required Support Courses for Outdoor Education and Stewardship (9 Credits)

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of

geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1
OR ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score:
18

Total Credits: 71

Bachelor of Arts in Psychology

Bachelor of Arts in Psychology Required Courses

At Least 12 Credits Must Be Completed at Adams State:

PSYC 204 - Child Development

3 Credit(s)

The goal of this course is to examine the interaction of heredity and environment on human development from conception through pre-adolescence. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Some topics include the birth process, early cognitive and language development, gender socialization, the impact of parenting styles, and moral reasoning.

Prerequisite(s):

PSYC 101 Minimum Grade: C or T

PSYC 205 - Adolescent and Adult Development

3 Credit(s)

This course continues the study of life-span development from adolescence through old age and death. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Topics include identity formation, sexual orientation, marriage, models of aging, changes in cognition, social developments, and coping with old age.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 211 - Introduction to Statistics Lecture/Lab

4 Credit(s)

In this course, students will develop a working appreciation of statistical concepts and applications as employed in the behavioral sciences. The course presents descriptive and inferential statistics and their applications. The laboratory component of this course gives students an opportunity to develop skills in using statistical software.

Prerequisite(s):

PSYC 101 Minimum Grade: C- or T

AND

MATH 97 Minimum Grade: S-A or S-B or S-C or T

OR

MATH 99 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 121 Minimum Grade: C- or T

OR

MATH 140 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

PSYC 230 - Psychology of Mental Health

3 Credit(s)

The purpose of this course is to provide students with the historical and social background necessary to understand mental health issues. Students will examine the psychodynamic, behavioral, and cognitive approaches related to the development and treatment of mental disorders and their classifications. Topics will include schizophrenia, depression, bipolar, and personality disorders.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 245 - Brain and Behavior

3 Credit(s)

This course provides students with a basic overview of the biological processes underlying human behavior. This course begins by presenting fundamental nervous system structure and processes and concludes by examining the role of biology in complex behaviors. Clinical case studies are used to illustrate psychological and neurological disorders. Sample topics include evolution and genetics, neural communication, major brain structures and their functions, human brain damage, sleep and dreaming, drug addiction, memory and amnesia, and stress and illness.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 265 - Personalities in Perspective

3 Credit(s)

This course provides an introduction to the psychodynamic, trait, behavioral, biological, cognitive and humanistic approaches to personality. Specific theories and current research within each approach are reviewed. The course covers such theorists as Freud, Jung, Erikson, Skinner, Bandura, Cattell, Allport, and May.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 330 - Professional Seminar

1 Credit(s)

This course provides psychology majors with an overview of careers and opportunities in the field of psychology. Educational requirements, career opportunities, and professional and ethical issues are discussed.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

OR

PSYC 205 Minimum Grade: C- OR T

PSYC 355 - Research Methods in Psychology

4 Credit(s)

This course focuses on the procedures and potential problems associated with research in the behavioral sciences. Students learn how to develop research questions, choose an appropriate research design, collect and analyze data using statistical software, interpret results, and write a report using APA style. The laboratory component provides supervised hands-on experience in project development.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

LS 225 Minimum Grade: C- OR T

PSYC 414 - Cognitive Psychology

3 Credit(s)

This course presents the scientific study of the basic phenomena, concepts, and processes and neurology involved in perception, attention, memory, and higher cognitive functions. Cognitive theory and research methods are used in interpreting cognitive phenomena.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 468 - History and Systems of Psychology

3 Credit(s)

The goals of this course are to examine the origins of modern psychology and to explore how many of psychology's modern concerns are manifestations of continuing issues that have been part of Western psychology for hundreds of years. Course topics include the development of modern science and experimentalism, Darwinian influences, functionalism, behaviorism, cognitivism, the psychoanalytic tradition, humanism, and psychobiology.

Prerequisite(s):

PSYC 101 Minimum Grade: C- or T
AND

PSYC 204 Minimum Grade: C- or T

AND

PSYC 205 Minimum Grade: C- or T

AND

PSYC 211 Minimum Grade: C- or T

PSYC 496 - Capstone: Internship in Psychology

1 to 15 Credit(s)

Senior psychology majors will gain applied experience in psychology by volunteering for a service organization.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T
AND

PSYC 205 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T
AND

PSYC 330 Minimum Grade: C- OR T
AND

PSYC 355 Minimum Grade: C- OR T

OR

PSYC 497 - Capstone Research Thesis I

2 Credit(s)

Students enrolling in the course will develop a research thesis under the guidance of a faculty member of the Psychology Department. Students will complete a written thesis proposal, and prepare and submit an application to conduct research to the Institutional Review Board (IRB). The course involves one hour per week of class contact where aspects of research methods will be reviewed, including developing the research question, hypothesis, choosing appropriate methods, and IRB submission.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T
AND

PSYC 355 Minimum Grade: C- OR T

PSYC 498 - Capstone Research Thesis II

3 Credit(s)

Students enrolling in the course will conduct a research thesis under the guidance of a faculty member of the Psychology Department. Students will conduct primary empirical research, write a final thesis in APA format, and present an oral defense to the psychology faculty.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

AND

PSYC 497 Minimum Grade: C-

6 Credits of Electives from the following

PSYC 386 - Theory and Practice

3 Credit(s)

This course presents the historical underpinnings of the major theories and principles of learning, and how they are used in applied settings. Classic learning theories are contrasted with contemporary approaches. Students will learn cognitive behavioral assessment and intervention strategies. Topics include traditional behavior modification, as well as contemporary social learning theory and cognitive-behavioral change strategies.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 410 - Social Psychology

3 Credit(s)

This course will examine how social processes impact thoughts, feelings, and behavior through the survey of theory and research. Topics will include attraction, aggression, helping, obedience, attitudes, and prejudice.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 416 - Biological Psychology

3 Credit(s)

This course provides a more thorough examination of the biological basis of human behavior. The biological mechanisms of behavior are emphasized as well as the evolution, genetics, and adaptiveness of behavioral processes. The impact on society of recent developments in neuroscience is also examined.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 455 - Evolutionary Psychology

3 Credit(s)

This course provides students with a detailed and thorough examination of the impact of evolution on human behavior and mental processes. An emphasis using animal behavior and evolutionary processes as a model for understanding human behavior will be utilized. Students will also be exposed to a variety of topics including, the importance of science, the evidence for evolution, selective breeding, genetic and ecological contributions to behavior, the biological constraints on learning, the development of higher mental processes, complex social behavior, and sex differences in mating behavior and cognition.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 458 - Sensation and Perception

3 Credit(s)

This course examines the physiological and behavioral components of basic sensory processes and the role they play in perception. These sensory systems include vision, audition, the somatic senses (i.e., touch, temperature, and pain) and the chemical senses (i.e., taste and smell). The development and clinical aspects of these sensory systems are also studied. Sample topics include receptors and neural processing, color perception, depth and size perception, perception of movement, speech perception, and the perception of pitch.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

Plus 6 Credits Of 300 to 400 Level Psychology Electives

All Psychology Majors

Must participate in an exit interview with a committee of psychology faculty (arranged with advisor).

Bachelor of Arts in Psychology, Clinical Psychology Emphasis

Go to: Psychology

Bachelor of Arts in Psychology Required Courses

At Least 12 Credits Must Be Completed at Adams State:

PSYC 204 - Child Development

3 Credit(s)

The goal of this course is to examine the interaction of heredity and environment on human development from conception through pre-adolescence. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Some topics include the birth process, early cognitive and language development, gender socialization, the impact of parenting styles, and moral reasoning.

Prerequisite(s):

PSYC 101 Minimum Grade: C or T

PSYC 205 - Adolescent and Adult Development

3 Credit(s)

This course continues the study of life-span development from adolescence through old age and death. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Topics include identity formation, sexual orientation, marriage, models of aging, changes in cognition, social developments, and coping with old age.

Prerequisite(s):

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4 Credit(s)

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Prerequisite(s):

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AND

MATH 97 Minimum Grade: S-A or S-B or S-C or T

OR

MATH 99 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 121 Minimum Grade: C- or T

OR

MATH 140 Minimum Grade: C- or T

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MATH 150 Minimum Grade: C- or T

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ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

PSYC 230 - Psychology of Mental Health

3 Credit(s)

The purpose of this course is to provide students with the historical and social background necessary to understand mental health issues. Students will examine the psychodynamic, behavioral, and cognitive approaches related to the development and treatment of mental disorders and their classifications. Topics will include schizophrenia, depression, bipolar, and personality disorders.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 245 - Brain and Behavior

3 Credit(s)

This course provides students with a basic overview of the biological processes underlying human behavior. This course begins by presenting fundamental nervous system structure and processes and concludes by examining the role of biology in complex behaviors. Clinical case studies are used to illustrate psychological and neurological disorders. Sample topics include evolution and genetics, neural communication, major brain structures and their functions, human brain damage, sleep and dreaming, drug addiction, memory and amnesia, and stress and illness.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 265 - Personalities in Perspective

3 Credit(s)

This course provides an introduction to the psychodynamic, trait, behavioral, biological, cognitive and humanistic

approaches to personality. Specific theories and current research within each approach are reviewed. The course covers such theorists as Freud, Jung, Erikson, Skinner, Bandura, Cattell, Allport, and May.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 330 - Professional Seminar

1 Credit(s)

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Prerequisite(s):

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AND

PSYC 204 Minimum Grade: C- OR T

OR

PSYC 205 Minimum Grade: C- OR T

PSYC 355 - Research Methods in Psychology

4 Credit(s)

This course focuses on the procedures and potential problems associated with research in the behavioral sciences. Students learn how to develop research questions, choose an appropriate research design, collect and analyze data using statistical software, interpret results, and write a report using APA style. The laboratory component provides supervised hands-on experience in project development.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
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PSYC 211 Minimum Grade: C- OR T

AND

LS 225 Minimum Grade: C- OR T

PSYC 414 - Cognitive Psychology

3 Credit(s)

This course presents the scientific study of the basic phenomena, concepts, and processes and neurology involved in perception, attention, memory, and higher cognitive functions. Cognitive theory and research methods are used in interpreting cognitive phenomena.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 468 - History and Systems of Psychology

3 Credit(s)

The goals of this course are to examine the origins of modern psychology and to explore how many of psychology's modern concerns are manifestations of continuing issues that have been part of Western psychology for hundreds of years. Course topics include the development of modern science and experimentalism, Darwinian influences, functionalism, behaviorism, cognitivism, the psychoanalytic tradition, humanism, and psychobiology.

Prerequisite(s):

PSYC 101 Minimum Grade: C- or T

AND

PSYC 204 Minimum Grade: C- or T

AND

PSYC 205 Minimum Grade: C- or T

AND

PSYC 211 Minimum Grade: C- or T

PSYC 496 - Capstone: Internship in Psychology

1 to 15 Credit(s)

Senior psychology majors will gain applied experience in psychology by volunteering for a service organization.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 330 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

OR

PSYC 497 - Capstone Research Thesis I

2 Credit(s)

Students enrolling in the course will develop a research thesis under the guidance of a faculty member of the Psychology Department. Students will complete a written thesis proposal, and prepare and submit an application to conduct research to the Institutional Review Board (IRB). The course involves one hour per week of class contact where aspects of research methods will be reviewed, including developing the research question, hypothesis, choosing appropriate methods, and IRB submission.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 498 - Capstone Research Thesis II

3 Credit(s)

Students enrolling in the course will conduct a research thesis under the guidance of a faculty member of the Psychology Department. Students will conduct primary empirical research, write a final thesis in APA format, and present an oral defense to the psychology faculty.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

AND

PSYC 497 Minimum Grade: C-

6 Credits of Electives from the following

PSYC 386 - Theory and Practice

3 Credit(s)

This course presents the historical underpinnings of the major theories and principles of learning, and how they are used in applied settings. Classic learning theories are contrasted with contemporary approaches. Students will learn cognitive behavioral assessment and intervention strategies. Topics include traditional behavior modification, as well as contemporary social learning theory and cognitive-behavioral change strategies.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 410 - Social Psychology

3 Credit(s)

This course will examine how social processes impact thoughts, feelings, and behavior through the survey of theory and research. Topics will include attraction, aggression, helping, obedience, attitudes, and prejudice.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 416 - Biological Psychology

3 Credit(s)

This course provides a more thorough examination of the biological basis of human behavior. The biological mechanisms of behavior are emphasized as well as the evolution, genetics, and adaptiveness of behavioral processes. The impact on society of recent developments in neuroscience is also examined.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 455 - Evolutionary Psychology

3 Credit(s)

This course provides students with a detailed and thorough examination of the impact of evolution on human behavior and mental processes. An emphasis using animal behavior and evolutionary processes as a model for understanding human behavior will be utilized. Students will also be exposed to a variety of topics including, the importance of science, the evidence for evolution, selective breeding, genetic and ecological contributions to behavior, the biological constraints on learning, the development of higher mental processes, complex social behavior, and sex differences in mating behavior and cognition.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 458 - Sensation and Perception

3 Credit(s)

This course examines the physiological and behavioral components of basic sensory processes and the role they play in perception. These sensory systems include vision, audition, the somatic senses (i.e., touch, temperature, and pain) and the chemical senses (i.e., taste and smell). The development and clinical aspects of these sensory systems are also studied. Sample topics include receptors and neural processing, color perception, depth and size perception, perception of movement, speech perception, and the perception of pitch.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

Plus 6 Credits Of 300 to 400 Level Psychology Electives

Emphasis in Clinical Psychology

Completion of the Following Required Courses

COUN 312 - Introduction to Counseling

3 Credit(s)

This course provides an introduction to the profession of counseling and the importance of interpersonal communication skills and self-awareness across a variety of disciplines. Topics include an introduction to different counseling approaches, such as individual, family, and group counseling.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

OR

PSYC 205 Minimum Grade: C- OR T

PSYC 345 - Psychological Testing and Assessment

3 Credit(s)

This course provides students with an introduction to the methods and issues involved in testing and assessment. Various assessment domains are presented including personality, cognitive ability, and interests/values. Topics covered in this course include the historical foundation of assessment, reliability, validity, and test construction and ethical considerations.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

OR

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

PSYC 386 - Theory and Practice

3 Credit(s)

This course presents the historical underpinnings of the major theories and principles of learning, and how they are used in applied settings. Classic learning theories are contrasted with contemporary approaches. Students will learn cognitive behavioral assessment and intervention strategies. Topics include traditional behavior modification, as well as contemporary social learning theory and cognitive-behavioral change strategies.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

Plus 3 Hours from the Following

PSYC 310 - Child and Adolescent Psychopathology

3 Credit(s)

This course provides an examination of the classification, scientific theories, and research regarding abnormal behavior of children and adolescents. Distinctions between adult and childhood disorders will be explored from a developmental perspective. The study of abnormal behavior of children and adolescence (or developmental psychopathology) focuses on nature and development of mental disorders, such as depression, attention-deficit hyperactivity disorder, separation anxiety disorder, the autistic spectrum of disorders, to name just a few. Information regarding the etiology (causes) adult and childhood disorders will be explored.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

PSYC 315 - Multicultural Issues

3 Credit(s)

In this course, students will explore various components of a multicultural society and the impact of social and cultural forces on identity development and formation. The processes of acculturation and assimilation will be discussed. Students will also gain insight into their own cultural experiences in a pluralistic society.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

PSYC 316 - Drugs, Society, and Human Behavior

3 Credit(s)

This course addresses the social, biological, and psychological factors of the major drugs associated with therapeutic and recreational use and abuse. Topics include drug use as a social problem, theories and treatment of addiction, how drugs work, and the detrimental health effects of drug use.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

PSYC 360 - Psychology of Gender

3 Credit(s)

This course will examine gender development from a variety of theoretical approaches, including evolutionary, cognitive, social learning, and cross-cultural. Topics will include how gender influences thinking, communication, interpersonal relationships, education, work, and family.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

Plus 6 Hours from the Following

PSYC 410 - Social Psychology

3 Credit(s)

This course will examine how social processes impact thoughts, feelings, and behavior through the survey of theory and research. Topics will include attraction, aggression, helping, obedience, attitudes, and prejudice.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 455 - Evolutionary Psychology

3 Credit(s)

This course provides students with a detailed and thorough examination of the impact of evolution on human behavior and mental processes. An emphasis using animal behavior and evolutionary processes as a model for understanding human behavior will be utilized. Students will also be exposed to a variety of topics including, the importance of science, the evidence for evolution, selective breeding, genetic and ecological contributions to behavior, the biological constraints on learning, the development of higher mental processes, complex social behavior, and sex differences in mating behavior and cognition.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 458 - Sensation and Perception

3 Credit(s)

This course examines the physiological and behavioral components of basic sensory processes and the role they play in perception. These sensory systems include vision, audition, the somatic senses (i.e., touch, temperature, and pain) and the chemical senses (i.e., taste and smell). The development and clinical aspects of these sensory systems are also studied. Sample topics include receptors and neural processing, color perception, depth and size perception, perception of movement, speech perception, and the perception of pitch.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

Overall Total Required Credits for Psychology Major/ Clinical Emphasis (48 Credit Hours)

All Psychology Majors

Must participate in an exit interview with a committee of psychology faculty (arranged with advisor).

Bachelor of Arts in Public Health

Go to: Public Health

Public Health Core (33 Credits)

The Core Courses make use of courses from across the university: Biology, Business, Healthcare Administration, Nursing, Kinesiology, Sociology, and Psychology:

PBHL 100 - Foundations in Public Health

3 Credit(s)

Foundations in Public Health provides students with an overview of essential issues and components related to the field of public health.

PBHL 200 - Social Determinants of Health

3 Credit(s)

The course provides an overview of the social factors which are known to be the most powerful determinants of population health in modern societies, including income, education, race, gender, and support systems that interact to determine health across the lifespan.

Prerequisite(s):

PBHL 100

KIN 314 - Health Promotion

3 Credit(s)

This course examines the various factors that may influence a healthy society: heredity, environment, health care services, and lifestyle choices.

PSYC 315 - Multicultural Issues

3 Credit(s)

In this course, students will explore various components of a multicultural society and the impact of social and cultural forces on identity development and formation. The processes of acculturation and assimilation will be discussed. Students will also gain insight into their own cultural experiences in a pluralistic society.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

OR

SOC 365 - Race and Ethnicity in the U.S.

3 Credit(s)

This course provides a sociological approach to race and ethnic relations in the U.S. today. This course introduces the basic sociological theories and perspectives related to the study of race and ethnicity, the histories, and present status of different racial and ethnic groups in the United States and raises questions about continuing racial discrimination and inequality in our society. Issues of defining race, racial identity, interpersonal and institutional discrimination, segregation, and affirmative action (among others) are explored.

NURS 305 - Transcultural Nursing

3 Credit(s)

This course provides a theoretical framework for the delivery of culturally competent nursing care. The course will enable the nurse to navigate through the obstacles that culture can place on the patient/family experience. Through a presentation of the history and theory behind cultural competence in nursing, the course offers key information regarding health beliefs and the impact of culture on both health and illness. Students must be enrolled in the ASU RN to BSN online program.

OR

NURS 350 - Global Health Nursing

3 Credit(s)

The course uses a multidisciplinary perspective to explore global issues affecting personal, community, and international health and development using approaches from health promotion, population health, and primary health care to help frame analyses. Students are exposed to basic perspectives on health policy issues throughout various geographical regions and how they are affected by significant world events. Students must be enrolled in the ASU RN to BSN online program or ADN Dual Enrollment program.

HCA 311 - Health Care Law and Ethics

3 Credit(s)

This course presents an overview of the legal and ethical issues faced by health care consumers, practitioners, and administrators. The course will introduce students to the legal aspects of health care at the federal, state, and local levels. Topics covered will include criminal and civil claims against health care providers, corporate and individual liability, and legal and ethical decision-making, individual liability, and legal and ethical decision-making. HCA 361 Health Care Administration. Instructor permission.

Prerequisite(s):

BUS 211 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

OR

HCA 480 - Health Care Policy

3 Credit(s)

This course is an introduction to health policy. It will focus on how U.S. health policy is developed and will provide students with a general understanding of the policy making process and debates related major U.S. health care legislations.

Prerequisite(s):

HCA 303 Minimum Grade: C- OR T
AND

HCA 305 Minimum Grade: C- OR T

AND

HCA 363 Minimum Grade: C- OR T

PBHL 300 - Rural Public Health

3 Credit(s)

This course will provide an overview of how Public Health systems operate in rural geographical areas. It provides students with a foundational understanding of rural communities. It then explores rural public health systems and policies, health disparities and special populations and concludes with a final section on advancing rural health through assessment, planning, and intervention.

Prerequisite(s):

PBHL 100

PSYC 380 - Health Psychology

3 Credit(s)

Health Psychology examines the psychosocial factors relevant to health. The course emphasis will be on the contribution of psychological theory to the encouragement of health and wellness and prevention of physical illness. Topics include stress management, health and behavior, chronic and life threatening illness, treatment, and evaluation of health-related research. PSYC 211 recommended.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

HCA 402 - Public and Population Health

3 Credit(s)

This course consists of an examination of epidemiological concepts and methods of studying the distribution and determinants of morbidity and mortality in human population. The knowledge and skills acquired should enable one to understand and critically review scientific literature dealing with epidemiology concepts and measures. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

PBHL 498 - Public Health Capstone**3 Credit(s)**

The Public Health Capstone course provides students with an opportunity to demonstrate synthesis and application of the cumulative skills in public health in a real-world work setting by developing a needed public health intervention. Students will work closely with an area non-profit or health agency to implement a public health intervention that addresses a need in the organization. They will concurrently work with peers and the course instructor to work through key stages of public health program planning and intervention. This course integrates the students classroom learning into a work environment. The student will work closely with a work based supervisor and instructor to identify a work plan that demonstrates accomplishment of program outcomes and specific Adams Outcomes.

Prerequisite(s):

PBHL 300

Quantitative Methods - 6-7 Credits

Quantitative Methods courses ensure that students are well-versed in statistics and data analysis:

MATH 110 - Introduction to Statistics, GT-MA1**3 Credit(s)**

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T

OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

OR

PSYC 211 - Introduction to Statistics Lecture/Lab

4 Credit(s)

In this course, students will develop a working appreciation of statistical concepts and applications as employed in the behavioral sciences. The course presents descriptive and inferential statistics and their applications. The laboratory component of this course gives students an opportunity to develop skills in using statistical software.

Prerequisite(s):

PSYC 101 Minimum Grade: C- or T
AND

MATH 97 Minimum Grade: S-A or S-B or S-C or T

OR

MATH 99 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 121 Minimum Grade: C- or T

OR

MATH 140 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

SOC 311 - Social Statistics

4 Credit(s)

This course presents a general overview of the statistical methods most commonly used in sociology and the social sciences. As a laboratory component, students will become proficient in SPSS, a computer program designed to aid statistical analysis. These skills will enable the student to read popular applications of statistics in the media with a critical eye; assess the use of statistics in the professional sociological literature; and use statistical tools to answer the sociological questions of interest.

Prerequisite(s):

SOC 255 Minimum Grade: C-

AND

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Life Science (7-10 Credits)

Life Science courses in biology and nutrition ensure that students understand the basic tenets of health and the human body:

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 101L - Introductory Biology Lab

0 Credit(s)

Introductory Biology is a one-semester laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

OR

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1**5 Credit(s)**

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

Leadership (9-10 Credits)**BUS 265 - Business Communications****3 Credit(s)**

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- **OR** T

OR

COMM 100 - Public Speaking**3 Credit(s)**

Students will learn the theories behind and the techniques of public speaking. Students will compose, videotape, and upload speeches on various topics and various styles for peer and instructor critique. Students will also learn about the various models of public speaking and the fundamentals of communication theory.

OR

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

HCA 303 - Trends and Issues in Health Care

3 Credit(s)

This course is an introductory Health Care Administration course and will expose the student to the industry and its significant elements and trends of the current health care environment.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 316 - Public and Nonprofit Mgmt

3 Credit(s)

This course is designed to examine public and nonprofit management. This type of management is driven by mission and/or executive/legislative directions. It is not about the bottom line or profit. Students will learn both the theory and practice of public and nonprofit management, using the concept case method and service learning opportunities.

OR

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

OR

BUS 362 - Human Resource Management

3 Credit(s)

Analysis of techniques used to organize, motivate, and manage personnel in public or private organizations. Includes case studies and examines current literature and the current legal environment..

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

Choose 5 Courses of Electives (15 Credits)

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

OR

KIN 301 - Sport and Fitness Nutrition

3 Credit(s)

This course will present a review of basic nutrition. The course will also explore the areas of sport, exercise and fitness nutrition, supplementation, sport drug use and abuse, weight loss diets, eating disorders, weight gain nutrition, body composition, and the metabolic nutritional requirements of various sports and fitness activities.

Prerequisite(s):

KIN-329 Minimum Grade: C- OR T

AND

BIOL-112 Minimum Grade: C- OR T

OR

BIOL-205 Minimum Grade: C- OR T

FOOD 100 - Perspectives on Food

3 Credit(s)

This course is an exploration of the multitude of roles that food plays in the world. Each class will consist of a discussion of food through a different lens, such as culture, history, economy, nutrition, power, medicine, and ecology. The course will be highly discussion based and students will be challenged to explore their own personal relationship with food. Grades will be determined based on class participation, weekly reading reflections, a blog-post, and a food sharing presentation in which you will explore the history, culture and personal meaning of a specific dish.

KIN 120 - Concepts in Wellness

3 Credit(s)

In this course, students will learn about the various dimensions of wellness, assess their own health status, and design interventions to improve personal health through lecture, video, laboratory experiences, and physical activities. This course will also provide students with the information necessary to make evidence-based decisions regarding personal wellness and to understand health disparities among diverse populations. There is a physical activity component to this course.

FOOD 200 - U.S. Food Systems

3 Credit(s)

This course will provide an overview of the U.S. Food System, including the policy, agricultural, and cultural history that has led us to the food system that we have today. The course will include the following topics: the role of policy in shaping the food system; the history and current state of federal governmental food and agricultural programs; food as an industry (production, processing, distribution, sales, advertising, and consumer behavior). We will explore the implication of our current system for health, communities, and the environment.

PSYC 230 - Psychology of Mental Health

3 Credit(s)

The purpose of this course is to provide students with the historical and social background necessary to understand mental health issues. Students will examine the psychodynamic, behavioral, and cognitive approaches related to the development and treatment of mental disorders and their classifications. Topics will include schizophrenia, depression, bipolar, and personality disorders.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 245 - Brain and Behavior

3 Credit(s)

This course provides students with a basic overview of the biological processes underlying human behavior. This course begins by presenting fundamental nervous system structure and processes and concludes by examining the role of biology in complex behaviors. Clinical case studies are used to illustrate psychological and neurological disorders. Sample topics include evolution and genetics, neural communication, major brain structures and their functions, human brain damage, sleep and dreaming, drug addiction, memory and amnesia, and stress and illness.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

FOOD 250 - Community Food Systems

3 Credit(s)

In this course, students will study local food systems, using the San Luis Valley as a case study for a broader understanding of the role of local food systems in community vitality and health. We will explore: the pathways of food from the farm, to the distributor, to consumer, and finally as waste; inequalities in food access within communities; strategies for creating a resilient and sustainable local food system; and the major players in the local food system. Students will be provided with many examples of organizations using creative solutions to food system problems.

Prerequisite(s):

FOOD 100 Minimum Grade: C-
AND

FOOD 200 Minimum Grade: C-

PSYC 316 - Drugs, Society, and Human Behavior

3 Credit(s)

This course addresses the social, biological, and psychological factors of the major drugs associated with therapeutic and recreational use and abuse. Topics include drug use as a social problem, theories and treatment of addiction, how drugs work, and the detrimental health effects of drug use.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

SPAN 316 - Spanish for Health Professions

3 Credit(s)

Instruction in the special vocabulary, grammatical structures and cultural understanding needed to deal effectively with the Spanish speaking patient/health professional interactions. The student will learn to interact in Spanish with a variety of simulated common everyday patient/health personnel situations.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

PSYC 387 - Psychology of Aging

3 Credit(s)

This course will take the psychological, biological, and sociocultural approaches to adult development and aging. Topics will include successful aging, identity development, relationships, memory and cognition, physical aging, retirement, illness, and dying.

Prerequisite(s):

PSYC 101

SOC 305 - Rural Sociology

3 Credit(s)

The purpose of this course is to introduce some of the social, political, environmental, and economic problems and prospects associated with rural America. Special attention will also be given rural community services and social institutions, with some focus on the San Luis Valley and other parts of rural Colorado.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 320 - Marriages and Families

3 Credit(s)

This course will provide an overview of the family from a sociological perspective. The family is considered to be one of the most private and pervasive institutions in society. All of us have had contact with at least one family, and many of us will be involved in several different families during our lifetime. Our experiences point to the numerous transformations in family life. To obtain a better understanding of these changes, recent sociological research and data on the family will be utilized in this course. In addition to examining the history of the family, the course will study the contemporary family and its diversity. The course will examine traditional marriage/family arrangements and alternative processes of mate selection and family formation. Finally, the course will examine parenting, the relationship between work and family, divorce and reconstituted families.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 370 - Poverty and Wealth

3 Credit(s)

This course examines the historical and socio-cultural factors which influence the creation and maintenance of poverty and wealth. Emphasis will be on structural factors and theoretical explanations of poverty and inequality. This course will also focus on the implications for policy and social programs aimed at poverty and other social class issues. In addition, there will be exploration of systems of power, privilege, and domination that are central to the American social structure. Finally, the issues of empowerment, resistance, and solutions to social inequality will be assessed.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

SOC 251 Minimum Grade: C- OR T

SOC 401 - Self & Society

3 Credit(s)

This course will look at social psychology from a sociological perspective. More specifically, students will utilize the symbolic interactionist theory to examine how identities, selves, social life, and social reality are products of ongoing social interactions.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 419 - Gender and Society

3 Credit(s)

The aim of the course is for students to become familiar with the continuing differences and inequalities between women and men in the contemporary United States, and to begin to explain why and how they occur through a sociological lens. Understanding gender as it relates to other social identities (for example, race, class and sexuality) is an important organizing framework of the course. Students will learn about the gendered arrangements in a variety of social contexts such as education, the media, work and the economy, and the family.

HCA 455 - Health Care Economics

3 Credit(s)

This course will examine health care decision-making and the functioning of health care markets in the U.S. The course is not designed as a pure economics theory course but instead emphasizes how you can frame and analyze various health issues using the principles of economics. By doing so, you will gain a powerful new perspective that will help you understand the decisions made by individuals and organizations in the face of scarce resources. Instructor permission.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

ANTH 460 - Medical Anthropology

3 Credit(s)

This course will explore the cross-cultural significance of health and wellness from an anthropological perspective. We will delve into the complex interplay of biological, psychological, social, environmental, and political-economic processes on the concepts of illness, suffering, and healing. Particular emphasis will be placed on the ethnographic approach to the lived context in which wellness and suffering are experienced, narrated, and addressed.

SOC 470 - Social and Public Programs

3 Credit(s)

This course analyzes the historical development, current content, and adequacy of social welfare policies in the United States. Specific policy areas to be discussed include income maintenance (including social insurance and public assistance), mental health, health care, and aging.

Prerequisite(s):

SOC 352 Minimum Grade: C- OR T

Bachelor of Arts in Social Sciences, Forensics Emphasis

Go to: Sociology

The program is designed to provide students with a grounding in factors that address social, psychological, cultural, historical and political differences that impact individuals within the criminal justice system. In addition, we draw on forensic science practices with courses in Anthropology (Forensic Anthropology) and Chemistry (Forensic chemistry). The program will equip students for jobs in the criminal justice system and graduate programs in forensic science.

Core Requirements (48 Credits)

Lower Level Courses

PSYC 265 - Personalities in Perspective

3 Credit(s)

This course provides an introduction to the psychodynamic, trait, behavioral, biological, cognitive and humanistic approaches to personality. Specific theories and current research within each approach are reviewed. The course covers such theorists as Freud, Jung, Erikson, Skinner, Bandura, Cattell, Allport, and May.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 230 - Psychology of Mental Health

3 Credit(s)

The purpose of this course is to provide students with the historical and social background necessary to understand mental health issues. Students will examine the psychodynamic, behavioral, and cognitive approaches related to the development and treatment of mental disorders and their classifications. Topics will include schizophrenia, depression, bipolar, and personality disorders.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

SOC 245 - Criminology

3 Credit(s)

Criminology is an introductory course to the study of crime and criminal behavior with special emphasis on theories of crime and delinquency causation, rates and extent of crime, and social control agents (i.e., the police, courts, and "corrections"). Special topics examined may include gangs, white-collar crimes, property crimes, victimless crimes, and organized crime.

Upper Level Courses

ANTH 360 - Forensic Anthropology

3 Credit(s)

This class examines the science and methods of physical anthropology as it relates to the medico-legal work done to identify unknown human remains in atypical circumstances. This introductory course will introduce students to human osteology and dentition in relation to identifying age, sex, stature, and ancestry, as well as bone pathologies and techniques for estimating time of death and post-mortem changes. As part of the course, some visual materials will depict trauma and decomposition of human remains.

PSYC 315 - Multicultural Issues

3 Credit(s)

In this course, students will explore various components of a multicultural society and the impact of social and cultural forces on identity development and formation. The processes of acculturation and assimilation will be discussed. Students will also gain insight into their own cultural experiences in a pluralistic society.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

PSYC 316 - Drugs, Society, and Human Behavior

3 Credit(s)

This course addresses the social, biological, and psychological factors of the major drugs associated with therapeutic and recreational use and abuse. Topics include drug use as a social problem, theories and treatment of addiction, how drugs work, and the detrimental health effects of drug use.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

SOC 346 - Criminal Justice

3 Credit(s)

The focus of this course is on the organizational structures and social processes of the American criminal justice system. It will examine criminal law, policing, courts, and corrections.

PSYC 355 - Research Methods in Psychology

4 Credit(s)

This course focuses on the procedures and potential problems associated with research in the behavioral sciences. Students learn how to develop research questions, choose an appropriate research design, collect and analyze data using statistical software, interpret results, and write a report using APA style. The laboratory component provides supervised hands-on experience in project development.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

LS 225 Minimum Grade: C- OR T

SOC 347 - Juvenile Delinquency

3 Credit(s)

This course describes the nature of delinquency, including the trends, characteristics, and causes of juvenile delinquency. In addition, the course will examine theories of delinquency, social influences on delinquency, historical and contemporary overviews of the juvenile justice system, and the juvenile justice process from police involvement to the court system and corrections. Finally, methods of treatment and prevention will be identified.

SOC 348 - Women and Crime

3 Credit(s)

This course will address the role women play as criminals, victims, and professionals in the criminal justice system. This course will examine the important intersection between gender and crime, exploring the nature and extent of women's involvement in the criminal justice system. The course will investigate and discuss the relationship between victimization and offending, and study the unique way women are involved in and impacted by the criminal justice system, with case study examples from real crimes.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 395 - Pre-Professional Seminar

2 Credit(s)

This course provides an introduction to the profession of sociology and the various career options available to graduates. Occupational and graduate school options are explored in detail through library research, presentations, observational and volunteer experiences, and informational interviews. Skills for job interviewing, resume development, and professional correspondence are explored.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 444 - Deviance and Control

3 Credit(s)

The sociology of deviance and control examines the nature of rule-making and rule-breaking in modern societies. The course includes theoretical considerations of the causes and consequences of deviance.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 447 - Correctional Systems

3 Credit(s)

This course will focus on corrections as one of the components of the American criminal justice system and its operation within a democratic form of government. The philosophical and historical underpinnings of punishment and correction will be analyzed and compared (e.g., punishment vs. rehabilitation).

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

SOC 346 Minimum Grade: C- OR T

PSYC 410 - Social Psychology

3 Credit(s)

This course will examine how social processes impact thoughts, feelings, and behavior through the survey of theory and research. Topics will include attraction, aggression, helping, obedience, attitudes, and prejudice.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

SOC 493 - Internship in Sociology

3 Credit(s)

Students in Sociology are placed at an internship site in the community and conduct a mentored capstone case study. Ninety hours of service with the agency are required. The student is supervised by both a Sociology faculty member and a representative from the human service agency. Instructor approval required for registration purposes.

Prerequisite(s):

Special permission and senior standing.

PSYC 496 - Capstone: Internship in Psychology

1 to 15 Credit(s)

Senior psychology majors will gain applied experience in psychology by volunteering for a service organization.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 330 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

Recommended Electives (1 needed to meet upper-level requirement of 42 credits)

PSYC 315 - Multicultural Issues

3 Credit(s)

In this course, students will explore various components of a multicultural society and the impact of social and cultural forces on identity development and formation. The processes of acculturation and assimilation will be discussed. Students will also gain insight into their own cultural experiences in a pluralistic society.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

PSYC 375 - Human Sexuality

3 Credit(s)

In this multidisciplinary course, students will be introduced to the physiological, medical, sociological, psychological, legal, ethical, moral, and educational facets of human sexuality. Topics in this course include male and female sexual anatomy and sexual response, contraception and disease control, sexually transmitted diseases, and sexual orientation.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 386 - Theory and Practice

3 Credit(s)

This course presents the historical underpinnings of the major theories and principles of learning, and how they are used in applied settings. Classic learning theories are contrasted with contemporary approaches. Students will learn cognitive behavioral assessment and intervention strategies. Topics include traditional behavior modification, as well as contemporary social learning theory and cognitive-behavioral change strategies.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 410 - Social Psychology

3 Credit(s)

This course will examine how social processes impact thoughts, feelings, and behavior through the survey of theory and research. Topics will include attraction, aggression, helping, obedience, attitudes, and prejudice.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

SOC 318 - Race, Class, and Gender

3 Credit(s)

The focus of this course is on the interrelated ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result and the dynamics of change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 365 - Race and Ethnicity in the U.S.

3 Credit(s)

This course provides a sociological approach to race and ethnic relations in the U.S. today. This course introduces the basic sociological theories and perspectives related to the study of race and ethnicity, the histories, and present status of different racial and ethnic groups in the United States and raises questions about continuing racial discrimination and inequality in our society. Issues of defining race, racial identity, interpersonal and institutional discrimination, segregation, and affirmative action (among others) are explored.

Bachelor of Arts in Social Sciences, Pre-Law Emphasis

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

This program is designed to focus on the skills, values knowledge and experience recognized as important for law school candidates by the American Bar Association. Skills identified as important for a successful career in law include problem solving, critical reading, writing and editing, oral communication, listening, research, public service and promotion of knowledge and direct exposure to the field of law. Thus, the program draws on courses that traditionally underpin law degrees, including history, philosophy and political science. In addition, we draw on a sample of courses from sociology and psychology that provide a fundamental background in the human experience and will enhance our students' abilities to bring a degree of social justice savvy to their pursuits of law.

Required General Education Courses

CHEM 103 - Introduction to Forensic Chemistry GT-SC1

4 Credit(s)

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T
OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

OR

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

Lower Level Courses

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

PHIL 202 - Ethics

3 Credit(s)

An examination of criteria governing ethical responses in typical situations as presented by representative thinkers. The application of principles in the development of reasonable standards of conduct and in the formulation of codes of ethics.

POLS 280 - Introduction to Model UN

1 to 6 Credit(s)

This course provides a hands-on introduction to international diplomacy and the inner workings of the United Nations. Students will engage in simulations of current global debates on issues such as violent conflict, human rights and poverty.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

PSYC 230 - Psychology of Mental Health

3 Credit(s)

The purpose of this course is to provide students with the historical and social background necessary to understand mental health issues. Students will examine the psychodynamic, behavioral, and cognitive approaches related to the development and treatment of mental disorders and their classifications. Topics will include schizophrenia, depression, bipolar, and personality disorders.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

SOC 245 - Criminology

3 Credit(s)

Criminology is an introductory course to the study of crime and criminal behavior with special emphasis on theories of crime and delinquency causation, rates and extent of crime, and social control agents (i.e., the police, courts, and "corrections"). Special topics examined may include gangs, white-collar crimes, property crimes, victimless crimes, and organized crime.

Upper Level Courses

COMM 457 - First Amendment and Copyright

3 Credit(s)

This course explores the First Amendment of the U.S. Constitution and current U.S. copyright laws, and how they apply to and affect both media practitioners and U.S. citizens.

Prerequisite(s):

COMM 255 Minimum Grade: C- OR T
AND

COMM 275 Minimum Grade: C- OR T

HIST 324 - History of American Business

3 Credit(s)

This course will examine the rise and evolution of U.S. business and capitalism from the founding of the country to the present. It will trace the development of business from early industries such as railroads, banking, and manufacturing through the rise of today's key industries such as automobiles, airlines, and technology corporations. It will also seek to understand the development of the macro-economy through the development of fiscal and monetary policy, and issues of labor.

HIST 420 - US Constitutional History

3 Credit(s)

The U.S. legal system, based on the U.S. Constitution, has evolved and shifted as the nation grew from an agrarian republic to the diverse and highly technical nation it is today. This course examines the history of the country through the Supreme Court and the evolving understanding of the Constitution, including the shaping of the Constitution through the amendments. This course considers the social and political context for the courts decisions and the impact those decisions have on government and the public.

HIST 496 - Internship in Law

3 Credit(s)

The internship course provides students with an opportunity to demonstrate synthesis and application of the cumulative skills acquired in the pre-law program to a real-world work setting. The internship is an experience that integrates the students classroom learning into a work environment. The student will work closely with an internship supervisor, together they identify a work plan that demonstrates accomplishment of program outcomes and specific Adams outcomes.

PHIL 320 - Water Ethics

3 Credit(s)

This class will explore the ethical concerns of water (re)production, usage, and distribution according to concepts of rights and responsibilities, socio-historical conditions, available resources, cultural usage, evaluation, and governance.

POLS 300 - Introduction to World Politics

3 Credit(s)

This course is of interest to students who want a better understanding of the international political arena. The course also helps students understand contemporary world affairs.

POLS 301 - Change Dynamics / International Relations

3 Credit(s)

This course is intended to supplement POLS 300, but can stand on its own. It introduces students to specific topics in the international arena.

OR

POLS 307 - Introduction to World Governments

3 Credit(s)

This course is specifically designed to prepare education majors for the licensing exam. It is also of interest to history/political science students who want a better understanding of institutions and systems.

POLS 351 - Congress / Presidency / Public Policy

3 Credit(s)

This course examines Congress, the legislative process, presidency, and how both influence the policy-making process, with emphasis on specific policies such as healthcare, education, crime, housing, and social welfare.

POLS 380 - Model United Nations

3 Credit(s)

This course explores international diplomacy and the inner workings of the United Nations. It also provides a hands-on approach to current global debates on issues such as violent conflict, human rights and poverty.

POLS 393 - Women, Politics, and Culture

3 Credit(s)

Interdisciplinary analysis of politics and culture. Course examines the role of gender in the political culture of the United States and selected societies in industrialized and developing nations. Of special interest to those wishing to pursue an interest in women's studies and/or cultural anthropology.

POLS 460 - Pre-Law Studies Seminar

3 Credit(s)

Taught in an intensive Socratic format, this course is designed to prepare students specifically to read, write, and think like a lawyer. In addition to formal classroom exercises, students shall visit courts and interact with practicing attorneys.

POLS 480 - International Law

3 Credit(s)

This course explores the key terms and concepts of International Law, from its historical roots to present day institutions, legal cases, and controversies. Many of the key terms and concepts of International Law are the same or similar to those of the U.S. legal system, thereby helping to prepare students who wish to pursue a domestic law degree.

Prerequisite(s):

POLS 380

Co-requisite(s): POLS 380

SOC 346 - Criminal Justice

3 Credit(s)

The focus of this course is on the organizational structures and social processes of the American criminal justice system. It will examine criminal law, policing, courts, and corrections.

Choose 2 Courses from Recommended Electives

ANTH 360 - Forensic Anthropology

3 Credit(s)

This class examines the science and methods of physical anthropology as it relates to the medico-legal work done to identify unknown human remains in atypical circumstances. This introductory course will introduce students to human osteology and dentition in relation to identifying age, sex, stature, and ancestry, as well as bone pathologies and techniques for estimating time of death and post-mortem changes. As part of the course, some visual materials will depict trauma and decomposition of human remains.

HIST 427 - The Sixties Era

3 Credit(s)

This course is a study of U.S. history from World War II through the 1980s, with emphasis on the Cold War, the Vietnam War, and social change in the 1960s era.

HIST 440 - The US Presidency

3 Credit(s)

This course will examine the evolution of the U.S. Presidency from 1789 to the present day, with special attention devoted to the changing scope and function of the office in the changing context of broader American history. Other topics of particular interest are the key figures who have altered the institution and role of crisis in changing the scope and functioning of the office.

POLS 303 - Current Political Issues

3 Credit(s)

This course examines current controversial political issues such as affirmative action, same sex marriage, abortion, capital punishment, cloning, pornography, censorship, religion in public schools, and immigration.

PSYC 316 - Drugs, Society, and Human Behavior

3 Credit(s)

This course addresses the social, biological, and psychological factors of the major drugs associated with therapeutic and recreational use and abuse. Topics include drug use as a social problem, theories and treatment of addiction, how drugs work, and the detrimental health effects of drug use.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

PSYC 384 - Forensic Psychology

3 Credit(s)

This course focuses upon the application and practice of psychology in both the civil and criminal justice systems with the following topics examined in depth: police and investigative psychology, family forensic psychology, psychology of crime and delinquency, victimology and victim services, legal psychology, expert witness testimony, consulting psychology, correctional psychology, and the ethical guidelines of the professional forensic psychologist.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

OR

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

OR

SOC 455 Minimum Grade: C- OR T

SOC 346 - Criminal Justice

3 Credit(s)

The focus of this course is on the organizational structures and social processes of the American criminal justice system. It will examine criminal law, policing, courts, and corrections.

SOC 347 - Juvenile Delinquency

3 Credit(s)

This course describes the nature of delinquency, including the trends, characteristics, and causes of juvenile delinquency. In addition, the course will examine theories of delinquency, social influences on delinquency, historical and contemporary overviews of the juvenile justice system, and the juvenile justice process from police involvement to the court system and corrections. Finally, methods of treatment and prevention will be identified.

SOC 430 - Social Movements

3 Credit(s)

This course is designed to provide an analysis of social movements on a broad array of topics including issues of how they form, why they form, when are they successful, and whether they change society. We will be looking at broader historical movements from the civil rights movement, the environmental movement and the feminist movement as well as more recent movements, on race, class and gender issues. We will look at how they relate to diversity and equity, social justice, globalization, and cultural change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 444 - Deviance and Control

3 Credit(s)

The sociology of deviance and control examines the nature of rule-making and rule-breaking in modern societies. The course includes theoretical considerations of the causes and consequences of deviance.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 447 - Correctional Systems

3 Credit(s)

This course will focus on corrections as one of the components of the American criminal justice system and its operation within a democratic form of government. The philosophical and historical underpinnings of punishment and correction will be analyzed and compared (e.g., punishment vs. rehabilitation).

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

AND

SOC 346 Minimum Grade: C- OR T

Bachelor of Arts in Sociology, Criminology Emphasis

Go to: Sociology

Note for Sociology Students

- Completion of SOC 201 is a prerequisite for all other sociology courses.
- All Sociology Majors must meet the requirements of the Local Writing Assessment in Sociology as well as the Internship, ePortfolio, and Final Review.

Sociology Required Courses

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

SOC 245 - Criminology

3 Credit(s)

Criminology is an introductory course to the study of crime and criminal behavior with special emphasis on theories of crime and delinquency causation, rates and extent of crime, and social control agents (i.e., the police, courts, and "corrections"). Special topics examined may include gangs, white-collar crimes, property crimes, victimless crimes, and organized crime.

SOC 251 - Social Problems

3 Credit(s)

This course is designed to provide the student with a survey of selected contemporary social problems. Social problems addressed in the class may include poverty, addiction and substance abuse, mental health, violence with a focus on family violence, crime, teen sexuality and pregnancy, and health care issues. The causes, severity, and consequences of the selected social problems are explored. In addition, strategies for alleviating social problems are presented.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

LS 225 Minimum Grade: C- OR T

SOC 255 - Research And Writing in Sociology

3 Credit(s)

This introductory course in social research and writing in sociology offers an overview of how sociologists study the social world, research social phenomena, and write about their findings. This class provides an overview of knowledge production and methods used by sociologists to develop a research agenda, test hypotheses, and refine theories and sociological inquiry. Students will gain the tools needed to conduct social research while also developing the skills necessary to read and critically evaluate sociological research. Students will learn fundamental concepts and mixed methods approach to sociological research. Students will summarize research and identify (1) the research question, (2) assumptions and propositions of the theory, (3) specific hypothesis, (4) methods used, and (5) the findings and results.

Prerequisite(s):

SOC 201 minimum grade C-

SOC 311 - Social Statistics

4 Credit(s)

This course presents a general overview of the statistical methods most commonly used in sociology and the social sciences. As a laboratory component, students will become proficient in SPSS, a computer program designed to aid statistical analysis. These skills will enable the student to read popular applications of statistics in the media with a critical eye; assess the use of statistics in the professional sociological literature; and use statistical tools to answer the sociological questions of interest.

Prerequisite(s):

SOC 255 Minimum Grade: C-

AND

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

SOC 318 - Race, Class, and Gender

3 Credit(s)

The focus of this course is on the interrelated ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result and the dynamics of change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 395 - Pre-Professional Seminar

2 Credit(s)

This course provides an introduction to the profession of sociology and the various career options available to graduates. Occupational and graduate school options are explored in detail through library research, presentations, observational and volunteer experiences, and informational interviews. Skills for job interviewing, resume development, and professional correspondence are explored.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 445 - Sociological Theory

3 Credit(s)

The major theories of society are covered in their classical and contemporary forms.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 455 - Qualitative Research Methods**4 Credit(s)**

This course is designed to expose students to a variety of qualitative research methods. Students will be instructed in the fundamentals of research design and implementation, including ethical considerations. Students will read and study the research projects of selected sociologists. Students will engage in multiple hands-on activities to practice research methods. Each student will design a qualitative research project. In the lab component of the course, students will analyze and interpret qualitative data. Finally, students will learn to conduct content analysis, and use grounding theory to code and analyze their data and write a final project report. This course includes a lab day each week and is a 4-credit course.

Prerequisite(s):

SOC 201 Minimum Grade: C-
AND

SOC 255 Minimum Grade: C-

SOC 493 - Internship in Sociology**3 Credit(s)**

Students in Sociology are placed at an internship site in the community and conduct a mentored capstone case study. Ninety hours of service with the agency are required. The student is supervised by both a Sociology faculty member and a representative from the human service agency. Instructor approval required for registration purposes.

Prerequisite(s):

Special permission and senior standing.

Criminology Emphasis**SOC 346 - Criminal Justice****3 Credit(s)**

The focus of this course is on the organizational structures and social processes of the American criminal justice system. It will examine criminal law, policing, courts, and corrections.

SOC 447 - Correctional Systems**3 Credit(s)**

This course will focus on corrections as one of the components of the American criminal justice system and its operation within a democratic form of government. The philosophical and historical underpinnings of punishment and correction will be analyzed and compared (e.g., punishment vs. rehabilitation).

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

SOC 346 Minimum Grade: C- OR T

Choose 1 of the following electives

SOC 347 - Juvenile Delinquency

3 Credit(s)

This course describes the nature of delinquency, including the trends, characteristics, and causes of juvenile delinquency. In addition, the course will examine theories of delinquency, social influences on delinquency, historical and contemporary overviews of the juvenile justice system, and the juvenile justice process from police involvement to the court system and corrections. Finally, methods of treatment and prevention will be identified.

SOC 348 - Women and Crime

3 Credit(s)

This course will address the role women play as criminals, victims, and professionals in the criminal justice system. This course will examine the important intersection between gender and crime, exploring the nature and extent of women's involvement in the criminal justice system. The course will investigate and discuss the relationship between victimization and offending, and study the unique way women are involved in and impacted by the criminal justice system, with case study examples from real crimes.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 444 - Deviance and Control

3 Credit(s)

The sociology of deviance and control examines the nature of rule-making and rule-breaking in modern societies. The course includes theoretical considerations of the causes and consequences of deviance.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

Choose 2 Courses from these Sociology Electives

SOC 279 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

SOC 305 - Rural Sociology

3 Credit(s)

The purpose of this course is to introduce some of the social, political, environmental, and economic problems and prospects associated with rural America. Special attention will also be given rural community services and social institutions, with some focus on the San Luis Valley and other parts of rural Colorado.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 315 - Sociology of Education

3 Credit(s)

This course explores the relationship between education and society with special emphasis on the effects of this relationship on the lives of students in the American education system.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 320 - Marriages and Families

3 Credit(s)

This course will provide an overview of the family from a sociological perspective. The family is considered to be one of the most private and pervasive institutions in society. All of us have had contact with at least one family, and many of us will be involved in several different families during our lifetime. Our experiences point to the numerous transformations in family life. To obtain a better understanding of these changes, recent sociological research and data on the family will be utilized in this course. In addition to examining the history of the family, the course will study the contemporary family and its diversity. The course will examine traditional marriage/family arrangements and alternative processes of mate selection and family formation. Finally, the course will examine parenting, the relationship between work and family, divorce and reconstituted families.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 345 - Women, Sport, and Society

3 Credit(s)

This course will explore how women have been involved in sports and athletics, how they have fought to claim recognition and legitimacy among historically male dominated settings, and how they continue to shape sports and the role of women in society. We will explore a wide variety of topics in society related to women in sports including historical influences, equitable access, characteristics of female sport participation, sport opportunities, and sport leadership. Topics will include Title IX, female bodies and physiology, sport diversity, gender identity, women's sport and aging, disabilities, sport and sexual violence, media and women's portrayal in sports, competitive sports in high school, college, and professional leagues, and marketing women's sports.

SOC 347 - Juvenile Delinquency

3 Credit(s)

This course describes the nature of delinquency, including the trends, characteristics, and causes of juvenile

delinquency. In addition, the course will examine theories of delinquency, social influences on delinquency, historical and contemporary overviews of the juvenile justice system, and the juvenile justice process from police involvement to the court system and corrections. Finally, methods of treatment and prevention will be identified.

SOC 348 - Women and Crime

3 Credit(s)

This course will address the role women play as criminals, victims, and professionals in the criminal justice system. This course will examine the important intersection between gender and crime, exploring the nature and extent of women's involvement in the criminal justice system. The course will investigate and discuss the relationship between victimization and offending, and study the unique way women are involved in and impacted by the criminal justice system, with case study examples from real crimes.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 365 - Race and Ethnicity in the U.S.

3 Credit(s)

This course provides a sociological approach to race and ethnic relations in the U.S. today. This course introduces the basic sociological theories and perspectives related to the study of race and ethnicity, the histories, and present status of different racial and ethnic groups in the United States and raises questions about continuing racial discrimination and inequality in our society. Issues of defining race, racial identity, interpersonal and institutional discrimination, segregation, and affirmative action (among others) are explored.

SOC 370 - Poverty and Wealth

3 Credit(s)

This course examines the historical and socio-cultural factors which influence the creation and maintenance of poverty and wealth. Emphasis will be on structural factors and theoretical explanations of poverty and inequality. This course will also focus on the implications for policy and social programs aimed at poverty and other social class issues. In addition, there will be exploration of systems of power, privilege, and domination that are central to the American social structure. Finally, the issues of empowerment, resistance, and solutions to social inequality will be assessed.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

SOC 251 Minimum Grade: C- OR T

SOC 379 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

SOC 391 - Sociology of Religion

3 Credit(s)

This course will introduce students to an examination of religion through sociological inquiry and imagination. Students will learn how sociologists study religion and will apply classical and contemporary sociological theories to understand both personal religious experiences/identities and organized religion as a social phenomenon. The course explores socialization into religions, the processes of conversion and apostasy, and various forms of organizational structures for religious groups. Other issues to be explored include how religious identity and structure connect to gender, race, sexuality, and social class; competition and conflict between different religious groups; as well as the tension between religion as a social institution and secularization trends in the contemporary US.

Prerequisite(s):

Junior standing

SOC 401 - Self & Society

3 Credit(s)

This course will look at social psychology from a sociological perspective. More specifically, students will utilize the symbolic interactionist theory to examine how identities, selves, social life, and social reality are products of ongoing social interactions.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 419 - Gender and Society

3 Credit(s)

The aim of the course is for students to become familiar with the continuing differences and inequalities between women and men in the contemporary United States, and to begin to explain why and how they occur through a sociological lens. Understanding gender as it relates to other social identities (for example, race, class and sexuality) is an important organizing framework of the course. Students will learn about the gendered arrangements in a variety of social contexts such as education, the media, work and the economy, and the family.

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 430 - Social Movements

3 Credit(s)

This course is designed to provide an analysis of social movements on a broad array of topics including issues of how they form, why they form, when are they successful, and whether they change society. We will be looking at broader historical movements from the civil rights movement, the environmental movement and the feminist movement as well

as more recent movements, on race, class and gender issues. We will look at how they relate to diversity and equity, social justice, globalization, and cultural change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 440 - Diversity in Media

3 Credit(s)

Students will analyze how US media represents traditionally marginalized people in the United States. The course will be primarily research, case study, and discussion based, with students and instructor working together to generate ideas and critique dominant ideologies.

SOC 444 - Deviance and Control

3 Credit(s)

The sociology of deviance and control examines the nature of rule-making and rule-breaking in modern societies. The course includes theoretical considerations of the causes and consequences of deviance.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 479 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

Note:

- For students choosing the Criminology emphasis: SOC 352, SOC 370, and SOC 470 are also available as elective courses.
- For students choosing the Social Work emphasis: SOC 346, SOC 347, and SOC 447 are also available as elective courses.

Bachelor of Arts in Sociology, Social Work Emphasis

Go to: Sociology

Note for Sociology Students

- Completion of SOC 201 is a prerequisite for all other sociology courses.
- All Sociology Majors must meet the requirements of the Local Writing Assessment in Sociology as well as the Internship, ePortfolio, and Final Review.

Sociology Required Courses

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

SOC 245 - Criminology

3 Credit(s)

Criminology is an introductory course to the study of crime and criminal behavior with special emphasis on theories of crime and delinquency causation, rates and extent of crime, and social control agents (i.e., the police, courts, and "corrections"). Special topics examined may include gangs, white-collar crimes, property crimes, victimless crimes, and organized crime.

SOC 251 - Social Problems

3 Credit(s)

This course is designed to provide the student with a survey of selected contemporary social problems. Social problems addressed in the class may include poverty, addiction and substance abuse, mental health, violence with a focus on family violence, crime, teen sexuality and pregnancy, and health care issues. The causes, severity, and consequences of the selected social problems are explored. In addition, strategies for alleviating social problems are presented.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

LS 225 Minimum Grade: C- OR T

SOC 255 - Research And Writing in Sociology

3 Credit(s)

This introductory course in social research and writing in sociology offers an overview of how sociologists study the social world, research social phenomena, and write about their findings. This class provides an overview of knowledge production and methods used by sociologists to develop a research agenda, test hypotheses, and refine theories and sociological inquiry. Students will gain the tools needed to conduct social research while also developing the skills necessary to read and critically evaluate sociological research. Students will learn fundamental concepts and mixed methods approach to sociological research. Students will summarize research and identify (1) the research question, (2) assumptions and propositions of the theory, (3) specific hypothesis, (4) methods used, and (5) the findings and results.

Prerequisite(s):

SOC 201 minimum grade C-

SOC 311 - Social Statistics

4 Credit(s)

This course presents a general overview of the statistical methods most commonly used in sociology and the social sciences. As a laboratory component, students will become proficient in SPSS, a computer program designed to aid statistical analysis. These skills will enable the student to read popular applications of statistics in the media with a critical eye; assess the use of statistics in the professional sociological literature; and use statistical tools to answer the sociological questions of interest.

Prerequisite(s):

SOC 255 Minimum Grade: C-

AND

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

SOC 318 - Race, Class, and Gender

3 Credit(s)

The focus of this course is on the interrelated ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result and the dynamics of change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 395 - Pre-Professional Seminar

2 Credit(s)

This course provides an introduction to the profession of sociology and the various career options available to graduates. Occupational and graduate school options are explored in detail through library research, presentations, observational and volunteer experiences, and informational interviews. Skills for job interviewing, resume development, and professional correspondence are explored.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 445 - Sociological Theory

3 Credit(s)

The major theories of society are covered in their classical and contemporary forms.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 455 - Qualitative Research Methods

4 Credit(s)

This course is designed to expose students to a variety of qualitative research methods. Students will be instructed in the fundamentals of research design and implementation, including ethical considerations. Students will read and study the research projects of selected sociologists. Students will engage in multiple hands-on activities to practice research methods. Each student will design a qualitative research project. In the lab component of the course, students will analyze and interpret qualitative data. Finally, students will learn to conduct content analysis, and use grounding theory to code and analyze their data and write a final project report. This course includes a lab day each week and is a 4-credit course.

Prerequisite(s):

SOC 201 Minimum Grade: C-
AND

SOC 255 Minimum Grade: C-

SOC 493 - Internship in Sociology

3 Credit(s)

Students in Sociology are placed at an internship site in the community and conduct a mentored capstone case study. Ninety hours of service with the agency are required. The student is supervised by both a Sociology faculty member and a representative from the human service agency. Instructor approval required for registration purposes.

Prerequisite(s):

Special permission and senior standing.

Social Work Emphasis

SOC 352 - Social Work Practices

3 Credit(s)

This course is an introduction to the nuts-and-bolts of social work practice. The course is designed with several general objectives in mind: (1) to familiarize the student with specific techniques of social work such as the person-in-environment approach and case management, (2) to provide a fundamental understanding of roles of community and family in social work practice, (3) to explore the needs of selected special populations in the community, (4) to identify the biological, psychological, and social influences on development and behavior across the life cycle, and (5) to introduce the student to fundamental social work practice skills.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

SOC 251 Minimum Grade: C- OR T

SOC 470 - Social and Public Programs

3 Credit(s)

This course analyzes the historical development, current content, and adequacy of social welfare policies in the United States. Specific policy areas to be discussed include income maintenance (including social insurance and public assistance), mental health, health care, and aging.

Prerequisite(s):

SOC 352 Minimum Grade: C- OR T

Choose 1 of the following electives

SOC 320 - Marriages and Families

3 Credit(s)

This course will provide an overview of the family from a sociological perspective. The family is considered to be one of the most private and pervasive institutions in society. All of us have had contact with at least one family, and many of us will be involved in several different families during our lifetime. Our experiences point to the numerous transformations in family life. To obtain a better understanding of these changes, recent sociological research and data on the family will be utilized in this course. In addition to examining the history of the family, the course will study the contemporary family and its diversity. The course will examine traditional marriage/family arrangements and alternative processes of mate selection and family formation. Finally, the course will examine parenting, the relationship between work and family, divorce and reconstituted families.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 370 - Poverty and Wealth

3 Credit(s)

This course examines the historical and socio-cultural factors which influence the creation and maintenance of poverty and wealth. Emphasis will be on structural factors and theoretical explanations of poverty and inequality. This course will also focus on the implications for policy and social programs aimed at poverty and other social class issues. In addition, there will be exploration of systems of power, privilege, and domination that are central to the American social structure. Finally, the issues of empowerment, resistance, and solutions to social inequality will be assessed.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

SOC 251 Minimum Grade: C- OR T

Choose 2 Courses from these Sociology Electives

SOC 279 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

SOC 305 - Rural Sociology

3 Credit(s)

The purpose of this course is to introduce some of the social, political, environmental, and economic problems and prospects associated with rural America. Special attention will also be given rural community services and social institutions, with some focus on the San Luis Valley and other parts of rural Colorado.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 315 - Sociology of Education

3 Credit(s)

This course explores the relationship between education and society with special emphasis on the effects of this relationship on the lives of students in the American education system.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 320 - Marriages and Families

3 Credit(s)

This course will provide an overview of the family from a sociological perspective. The family is considered to be one of the most private and pervasive institutions in society. All of us have had contact with at least one family, and many of us will be involved in several different families during our lifetime. Our experiences point to the numerous transformations in family life. To obtain a better understanding of these changes, recent sociological research and data on the family will be utilized in this course. In addition to examining the history of the family, the course will study the contemporary family and its diversity. The course will examine traditional marriage/family arrangements and alternative processes of mate selection and family formation. Finally, the course will examine parenting, the relationship between work and family, divorce and reconstituted families.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 345 - Women, Sport, and Society

3 Credit(s)

This course will explore how women have been involved in sports and athletics, how they have fought to claim recognition and legitimacy among historically male dominated settings, and how they continue to shape sports and the role of women in society. We will explore a wide variety of topics in society related to women in sports including historical influences, equitable access, characteristics of female sport participation, sport opportunities, and sport leadership. Topics will include Title IX, female bodies and physiology, sport diversity, gender identity, women's sport and aging, disabilities, sport and sexual violence, media and women's portrayal in sports, competitive sports in high school, college, and professional leagues, and marketing women's sports.

SOC 347 - Juvenile Delinquency

3 Credit(s)

This course describes the nature of delinquency, including the trends, characteristics, and causes of juvenile delinquency. In addition, the course will examine theories of delinquency, social influences on delinquency, historical and contemporary overviews of the juvenile justice system, and the juvenile justice process from police involvement to the court system and corrections. Finally, methods of treatment and prevention will be identified.

SOC 348 - Women and Crime

3 Credit(s)

This course will address the role women play as criminals, victims, and professionals in the criminal justice system. This course will examine the important intersection between gender and crime, exploring the nature and extent of women's involvement in the criminal justice system. The course will investigate and discuss the relationship between victimization and offending, and study the unique way women are involved in and impacted by the criminal justice system, with case study examples from real crimes.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 365 - Race and Ethnicity in the U.S.

3 Credit(s)

This course provides a sociological approach to race and ethnic relations in the U.S. today. This course introduces the basic sociological theories and perspectives related to the study of race and ethnicity, the histories, and present status of different racial and ethnic groups in the United States and raises questions about continuing racial discrimination and inequality in our society. Issues of defining race, racial identity, interpersonal and institutional discrimination, segregation, and affirmative action (among others) are explored.

SOC 370 - Poverty and Wealth

3 Credit(s)

This course examines the historical and socio-cultural factors which influence the creation and maintenance of poverty and wealth. Emphasis will be on structural factors and theoretical explanations of poverty and inequality. This course will also focus on the implications for policy and social programs aimed at poverty and other social class issues. In addition, there will be exploration of systems of power, privilege, and domination that are central to the American social structure. Finally, the issues of empowerment, resistance, and solutions to social inequality will be assessed.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

AND

SOC 251 Minimum Grade: C- OR T

SOC 379 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

SOC 391 - Sociology of Religion

3 Credit(s)

This course will introduce students to an examination of religion through sociological inquiry and imagination. Students will learn how sociologists study religion and will apply classical and contemporary sociological theories to understand both personal religious experiences/identities and organized religion as a social phenomenon. The course explores socialization into religions, the processes of conversion and apostasy, and various forms of organizational structures for religious groups. Other issues to be explored include how religious identity and structure connect to gender, race, sexuality, and social class; competition and conflict between different religious groups; as well as the tension between religion as a social institution and secularization trends in the contemporary US.

Prerequisite(s):

Junior standing

SOC 401 - Self & Society

3 Credit(s)

This course will look at social psychology from a sociological perspective. More specifically, students will utilize the symbolic interactionist theory to examine how identities, selves, social life, and social reality are products of ongoing social interactions.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 419 - Gender and Society

3 Credit(s)

The aim of the course is for students to become familiar with the continuing differences and inequalities between women and men in the contemporary United States, and to begin to explain why and how they occur through a sociological lens. Understanding gender as it relates to other social identities (for example, race, class and sexuality) is an important organizing framework of the course. Students will learn about the gendered arrangements in a variety of social contexts such as education, the media, work and the economy, and the family.

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 430 - Social Movements

3 Credit(s)

This course is designed to provide an analysis of social movements on a broad array of topics including issues of how they form, why they form, when are they successful, and whether they change society. We will be looking at broader historical movements from the civil rights movement, the environmental movement and the feminist movement as well as more recent movements, on race, class and gender issues. We will look at how they relate to diversity and equity, social justice, globalization, and cultural change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 440 - Diversity in Media

3 Credit(s)

Students will analyze how US media represents traditionally marginalized people in the United States. The course will be primarily research, case study, and discussion based, with students and instructor working together to generate ideas and critique dominant ideologies.

SOC 444 - Deviance and Control

3 Credit(s)

The sociology of deviance and control examines the nature of rule-making and rule-breaking in modern societies. The course includes theoretical considerations of the causes and consequences of deviance.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 479 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

Note:

- For students choosing the Criminology emphasis: SOC 352, SOC 370, and SOC 470 are also available as elective courses.
- For students choosing the Social Work emphasis: SOC 346, SOC 347, and SOC 447 are also available as elective courses.

Bachelor of Arts in Spanish, Liberal Arts Emphasis

Go to: Languages, Literature, and Media Communication

This program offers a wide variety of classes covering the language, literature, and culture of Spain and Latin America. There are also career-oriented classes such as Spanish for Translation, Spanish for Health Professions, and Spanish for Business.

Required Core

SPAN 313 - Conversation and Composition

3 Credit(s)

This course provides instruction in the development of advanced level conversation and writing skills (spelling, paragraphs, summaries, letters, reports, etc.) in Spanish. The student will acquire the useful everyday skills needed to communicate in Spanish correctly.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 350 - Advanced Grammar and Composition

3 Credit(s)

Intensive course in grammar and in the writing composition of the language. Advanced grammar principles, translation from English to Spanish and other language refinements.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

Civilization and Culture Courses

SPAN 325 - Spanish Civilization and Culture

3 Credit(s)

Instruction on selected themes taken from the historical legacy and cultural institutions of the Spanish people. The cultural topics include reading on: the Roman legacy, the church, the Moors, the great writers of the Golden Age, the great Spanish monarchs, Franco, etc. The selected themes will determine the supplemental readings that are selected in depth discussion and study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

OR

SPAN 326 - Latin American Civilization and Culture

3 Credit(s)

Instruction on selected themes taken from the historical and literary legacy of the Spanish people. The literary topics include reading about Spanish heroism, medieval Spanish beliefs, Spanish imperialism, Spanish-Indian relations, Great Spanish explorers, etc. The selected themes will determine the reading that are selected for in depth discussion and study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

Literature Courses

SPAN 340 - Topics in Spanish Literature

3 Credit(s)

Instruction on selected themes taken from the historical and literary legacy of the Spanish people. The literary topics include reading about Spanish heroism, medieval Spanish beliefs, Spanish imperialism, Spanish-Indian relations, Great Spanish explorers, etc. The selected themes will determine the reading that are selected for in depth discussion and study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

OR

SPAN 341 - Topics in Latin American Literature

3 Credit(s)

Instruction on selected themes taken from the historical and literacy of the Latin American people. The literary topics include reading on: the Spanish conquest, the Indian, independence, social protest, women, religious faith, etc. The selected themes will determine the readings that are selected for in depth discussion and study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

Language Elective Courses (6 Hours)

SPAN 310 - Southwest Spanish

3 Credit(s)

A study of characteristics of oral Southwest Spanish. The course will explore the historical origins of Spanish in the Southwest including the conquest and colonization by the Spanish, the signing of the Treaty of Guadalupe Hildago, and the settlement of the San Luis Valley. Issues related to bilingualism, Spanish/English contact, and attitudes toward and effects of the maintenance and loss of Spanish will be examined.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 315 - Spanish for Business

3 Credit(s)

Instruction in the specific vocabulary, grammatical structures, and cultural insights needed to effectively deal with the common everyday business interactions between the Spanish-speaking client and English-speaking business community.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 316 - Spanish for Health Professions

3 Credit(s)

Instruction in the special vocabulary, grammatical structures and cultural understanding needed to deal effectively with the Spanish speaking patient/health professional interactions. The student will learn to interact in Spanish with a variety of simulated common everyday patient/health personnel situations.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 317 - Spanish for Translation

3 Credit(s)

Instruction in the specific vocabulary, grammatical structures, and cultural insights needed to effectively deal with the non-technical general translations from English/Spanish or Spanish/English. Although the student will learn that there are various approaches used in the translation of texts, this course emphasizes the translation of the underlying message and its meaning based on the cultural context.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

SPAN 395 - Spanish Phonetics--Language History

3 Credit(s)

Introduction to the study of the Spanish sound system including a brief background of the history and development of the Spanish language as well as some discussion of dialectal differences across the globe. Designed for those planning to teach Spanish including pedagogical concepts that can be applied in the classroom to aid students in the improvement of their Spanish pronunciation. Examine English/Spanish contrasts and includes exercises in written transcription, oral productions, and an analysis of spoken Spanish.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 396 - Methods Teaching Foreign Language

3 Credit(s)

A study of effective teaching methods and the development of a contextualized approach to language instruction that is

based on meaningful language use, real-world communication, and interaction among learners. Emphasis will be placed on the National Standards for Foreign Language Learning and the American Council on the Teaching of Foreign Languages (ACTFL) proficiency guidelines.

Prerequisite(s):

Admission to the Educator Preparation Program

Literature Elective Courses (6 Hours)

SPAN 400 - Masterpieces of Spanish Literature

3 Credit(s)

This is a senior level course that provides an in-depth study of selected complete works of Spanish literary masterpieces. Five complete literary masterpiece works by Spanish writers will be selected for an in-depth study. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 401 - Masterpieces of Latin American Literature

3 Credit(s)

This is a senior level course that provides an in-depth study of selected complete works of Latin American literary masterpieces. Five complete literary masterpiece works by Latin American writers will be selected for an in-depth study. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 411 - Contemporary Spanish Literature

3 Credit(s)

This is a senior-level course that provides an in-depth study of selected complete works of contemporary Spanish literary works. Five complete literary works by Spanish writers will be selected for an in-depth study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 412 - Contemporary Latin American Literature

3 Credit(s)

This is a senior-level course that provides an in-depth study of selected complete works of contemporary Latin American literary works. Five complete literary works by contemporary Latin American writers will be selected for an in-depth study. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 413 - La Literatura Indigenista

3 Credit(s)

Study of the major themes and characteristics surrounding the social condition and plight of the Indian as portrayed in the major Latin American indigenous novels. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 414 - Spanish American Thought

3 Credit(s)

Study of the major themes, ideas, and perspectives of major Latin American writers. The selected readings include interpretive essays, literary narratives, and philosophical works by such writers as: Samiento, Andres Bello, Juan Montalvo, Jose Marti, Octavio Paz, Jose Vasconcelos, Leopold Zea, and others. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 415 - Cervantes/EI Quijote

3 Credit(s)

A study of the life and important works of Cervantes with special emphasis on the Quijote. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 416 - La Novela/Revolucion Mexicana

3 Credit(s)

Analysis of the most important novelists of the Mexican Revolution and their impact upon the present day political, social, and economic structure of Mexico. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 419 - Golden Age Drama

3 Credit(s)

A study of the themes, forms and development of Spanish National Theatre of the 16th and 17th Centuries. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 423 - Modern Hispanic Short Story

3 Credit(s)

This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 425 - Hispanic Poetry

3 Credit(s)

A course designed to analyze the techniques, styles, etc. of selected Hispanic poetic collections. Instructor permission may be sought in lieu of prerequisites.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 479 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

Language/Literature Electives (3 additional hours from above)

Note

Successful completion of the Senior Comprehensive Examination (SCE).

Successful completion of the Oral Proficiency Interview (OPI) in Spanish at ACTFL level advanced high.

NOTE: Completion of the SCE and OPI are instruments used by ASU Language Faculty to assess the effectiveness of their program in four areas:

Oral performance in speaking, understanding, description, and oral narration;

- Writing (Grammar);
- Hispanic culture and literature appreciation;
- Teaching methodology.

Bachelor of Arts in Spanish, Secondary Teacher Licensure

Go to: Bachelor of Arts, Secondary Education Licensure

Go to: Languages, Literature, and Media Communication

1. Required Core

SPAN 313 - Conversation and Composition

3 Credit(s)

This course provides instruction in the development of advanced level conversation and writing skills (spelling, paragraphs, summaries, letters, reports, etc.) in Spanish. The student will acquire the useful everyday skills needed to communicate in Spanish correctly.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 350 - Advanced Grammar and Composition

3 Credit(s)

Intensive course in grammar and in the writing composition of the language. Advanced grammar principles, translation from English to Spanish and other language refinements.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 395 - Spanish Phonetics--Language History

3 Credit(s)

Introduction to the study of the Spanish sound system including a brief background of the history and development of the Spanish language as well as some discussion of dialectal differences across the globe. Designed for those planning to teach Spanish including pedagogical concepts that can be applied in the classroom to aid students in the improvement of their Spanish pronunciation. Examine English/Spanish contrasts and includes exercises in written transcription, oral productions, and an analysis of spoken Spanish.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 396 - Methods Teaching Foreign Language

3 Credit(s)

A study of effective teaching methods and the development of a contextualized approach to language instruction that is based on meaningful language use, real-world communication, and interaction among learners. Emphasis will be placed on the National Standards for Foreign Language Learning and the American Council on the Teaching of Foreign Languages (ACTFL) proficiency guidelines.

Prerequisite(s):

Admission to the Educator Preparation Program

A) Civilization and Culture Courses

SPAN 325 - Spanish Civilization and Culture

3 Credit(s)

Instruction on selected themes taken from the historical legacy and cultural institutions of the Spanish people. The cultural topics include reading on: the Roman legacy, the church, the Moors, the great writers of the Golden Age, the great Spanish monarchs, Franco, etc. The selected themes will determine the supplemental readings that are selected in depth discussion and study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

OR

SPAN 326 - Latin American Civilization and Culture

3 Credit(s)

Instruction on selected themes taken from the historical and literary legacy of the Spanish people. The literary topics include reading about Spanish heroism, medieval Spanish beliefs, Spanish imperialism, Spanish-Indian relations, Great Spanish explorers, etc. The selected themes will determine the reading that are selected for in depth discussion and study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

B) Literature Courses

SPAN 340 - Topics in Spanish Literature

3 Credit(s)

Instruction on selected themes taken from the historical and literary legacy of the Spanish people. The literary topics include reading about Spanish heroism, medieval Spanish beliefs, Spanish imperialism, Spanish-Indian relations, Great Spanish explorers, etc. The selected themes will determine the reading that are selected for in depth discussion and study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

OR

SPAN 341 - Topics in Latin American Literature

3 Credit(s)

Instruction on selected themes taken from the historical and literacy of the Latin American people. The literary topics include reading on: the Spanish conquest, the Indian, independence, social protest, women, religious faith, etc. The selected themes will determine the readings that are selected for in depth discussion and study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

C) Language Elective Courses (6 Hours)

SPAN 310 - Southwest Spanish

3 Credit(s)

A study of characteristics of oral Southwest Spanish. The course will explore the historical origins of Spanish in the Southwest including the conquest and colonization by the Spanish, the signing of the Treaty of Guadalupe Hildago, and the settlement of the San Luis Valley. Issues related to bilingualism, Spanish/English contact, and attitudes toward and effects of the maintenance and loss of Spanish will be examined.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 315 - Spanish for Business

3 Credit(s)

Instruction in the specific vocabulary, grammatical structures, and cultural insights needed to effectively deal with the common everyday business interactions between the Spanish-speaking client and English-speaking business community.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 316 - Spanish for Health Professions

3 Credit(s)

Instruction in the special vocabulary, grammatical structures and cultural understanding needed to deal effectively with the Spanish speaking patient/health professional interactions. The student will learn to interact in Spanish with a variety of simulated common everyday patient/health personnel situations.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 317 - Spanish for Translation

3 Credit(s)

Instruction in the specific vocabulary, grammatical structures, and cultural insights needed to effectively deal with the non-technical general translations from English/Spanish or Spanish/English. Although the student will learn that there are various approaches used in the translation of texts, this course emphasizes the translation of the underlying message and its meaning based on the cultural context.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

D) Literature Elective Courses (6 Hours)

SPAN 400 - Masterpieces of Spanish Literature

3 Credit(s)

This is a senior level course that provides an in-depth study of selected complete works of Spanish literary masterpieces. Five complete literary masterpiece works by Spanish writers will be selected for an in-depth study. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 401 - Masterpieces of Latin American Literature

3 Credit(s)

This is a senior level course that provides an in-depth study of selected complete works of Latin American literary masterpieces. Five complete literary masterpiece works by Latin American writers will be selected for an in-depth study. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 411 - Contemporary Spanish Literature

3 Credit(s)

This is a senior-level course that provides an in-depth study of selected complete works of contemporary Spanish literary works. Five complete literary works by Spanish writers will be selected for an in-depth study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 412 - Contemporary Latin American Literature

3 Credit(s)

This is a senior-level course that provides an in-depth study of selected complete works of contemporary Latin American literary works. Five complete literary works by contemporary Latin American writers will be selected for an in-depth study. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 413 - La Literatura Indigenista

3 Credit(s)

Study of the major themes and characteristics surrounding the social condition and plight of the Indian as portrayed in the major Latin American indigenous novels. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 414 - Spanish American Thought

3 Credit(s)

Study of the major themes, ideas, and perspectives of major Latin American writers. The selected readings include interpretive essays, literary narratives, and philosophical works by such writers as: Samiento, Andres Bello, Juan Montalvo, Jose Marti, Octavio Paz, Jose Vasconcelos, Leopold Zea, and others. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 415 - Cervantes/El Quijote

3 Credit(s)

A study of the life and important works of Cervantes with special emphasis on the Quijote. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 416 - La Novela/Revolucion Mexicana

3 Credit(s)

Analysis of the most important novelists of the Mexican Revolution and their impact upon the present day political, social, and economic structure of Mexico. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 419 - Golden Age Drama

3 Credit(s)

A study of the themes, forms and development of Spanish National Theatre of the 16th and 17th Centuries. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 423 - Modern Hispanic Short Story

3 Credit(s)

This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 425 - Hispanic Poetry**3 Credit(s)**

A course designed to analyze the techniques, styles, etc. of selected Hispanic poetic collections. Instructor permission may be sought in lieu of prerequisites.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 479 - Special Topics**1 to 6 Credit(s)**

Offered periodically to meet student special interests in the field.

E. An additional 3 Credits from B, C, or D**Note**

Successful Completion of this Degree requires:

- Successful completion of the Senior Comprehensive Examination (SCE).
- Successful completion of the Oral Proficiency Interview (OPI) in Spanish at ACTFL level advanced high.

Completion of the SCE and OPI are instruments used by ASU Language Faculty to assess the effectiveness of their program in four areas:

1. Oral performance in speaking, understanding, description, and oral narration;
2. Writing (Grammar);
3. Hispanic culture and literature appreciation;
4. Teaching methodology.

Plus Additional Secondary Education Licensure Requirements from the School of Education

Bachelor of Arts, Secondary Education Licensure

Bachelor of Arts in Sport Psychology

Go to: Psychology

The Bachelor of Arts degree in sport psychology functions as a pre-professional program for graduate study in sport psychology, in sport and exercise physiology, and/or in counseling.

Specific courses required for this degree:

Sport Psychology majors must complete the following core courses

KIN 100 - Foundations of Kinesiology

3 Credit(s)

This course serves as an overview of the historical, philosophical, ethical and sociological foundations of Kinesiology. This course will be delivered with a specific emphasis on exercise science, sport management, sport psychology, and coaching. Students also will study current issues, challenges and trends as they relate to professional careers and the administration of sport, fitness, and physical education. Embedded within this course is an introduction to the key Academic Program Goals of Kinesiology.

BIOL 112 - Human Anatomy

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure of the human body. Typically taken by HPPE students. Topics include gross anatomy, histology, the relationship between structure and function, and anatomical changes associated with disease processes. Course includes three hours of lecture and two hours of laboratory per week.

OR

BIOL 205 - Human Anatomy and Physiology I

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The integumentary, skeletal, muscular, and nervous systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Test - Minimum Score: 3 **OR** MATH 97 Minimum Grade: S or S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T and SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18 **OR** ENG 96 Minimum Grade: S or T

BIOL 206 - Human Anatomy and Physiology II

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological

changes in disease. The digestive, respiratory, circulatory, urinary, endocrine, and reproductive systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL 205 Minimum Grade: C- or T

OR

BIOL 210 Minimum Grade: C- or T

KIN 309 - Care / Prevention of Athletic Injuries

3 Credit(s)

The course will focus on the care and prevention of athletic injuries, including the evaluation, nature, types, and functions of various rehabilitation programs.

KIN 329 - Exercise Physiology

3 Credit(s)

This course presents an introduction and overview of the physiological bases of physical education, sport, and athletics. The effects of exercise on the various systems will be considered. Practical application of exercise science to physical fitness and athletic performance will be emphasized.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T

OR

BIOL 205 Minimum Grade: C- OR T

Co-requisite(s): KIN-329L

KIN 329L - Exercise Physiology Lab

1 Credit(s)

This exercise physiology lab class is designed to supplement the exercise physiology lecture course. This course will provide students with a hands-on experience in which they can apply concepts learned in the classroom to practice in the human performance laboratory and field of exercise, fitness, and sport.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T

OR

BIOL 205 Minimum Grade: C- OR T

Co-requisite(s): KIN-329

KIN 340 - Kinesiology

3 Credit(s)

This course focuses on the nature of human movement as influenced by those motor factors, anatomical factors, and mechanical principles that apply at rest and in motion.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

AND

KIN 329 Minimum Grade: C- OR T

AND

KIN 329L Minimum Grade: C- OR T

KIN 341 - Human Motor Development

3 Credit(s)

This course is designed to educate Kinesiology majors in the principles of human motor behavior and its influence on cognitive, affective, and psychomotor development throughout the lifespan. It will introduce students to factors that affect the intellectual, social, emotional, and physical development, growth and maturation of individuals relative to motor acquisition and regression.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

AND

BIOL 206 Minimum Grade: C- OR T

KIN 427 - Coaching Tech Strength / Conditioning

3 Credit(s)

This course is designed to provide information relative to the basic foundation of coaching sports conditioning including muscle physiology, bioenergetics, training methodology, exercise technique, program design, and facility management. Students will be given the opportunity to develop a general strength coaching philosophy and to demonstrate their knowledge relative to proper lifting techniques demonstrate their knowledge relative to proper lifting and training procedures.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T
OR

KIN 422 - Exercise Evaluation and Fitness Management

3 Credit(s)

This course is designed to familiarize students with the current methods used to determine levels of fitness in apparently healthy individuals, as well as individuals from special populations. Students will learn how to prescribe exercise for these individuals based on their fitness evaluation, basic training principles and other considerations. Students will be given the opportunity to test various individuals within specific testing parameters, and apply course knowledge to practical situations.

Prerequisite(s):

KIN 329L Minimum Grade: C- OR T

KIN 450 - Senior Capstone

3 Credit(s)

This course is designed as a culminating experience for Kinesiology majors. The focus of this High Impact Practice course will be on integrating prior knowledge, competencies, and experiences into practical applications and further professional development. Three main areas will be covered: service-learning, professional development, and personal reflection in relation to the student experience at Adams State.

Prerequisite(s):

Teacher Education Background Check Passed

Sport Psychology

KIN 302 - Sport Psychology

3 Credit(s)

Sport psychology is primarily concerned with the interaction between psychological variables and participation in sport and exercise. This course will review this interaction by addressing variables that affect the individual athlete, influence sport and exercise environments, shape group processes, enhance health and wellbeing, improve performance, and facilitate psychological growth and development in sport participants from diverse populations.

KIN 350 - Methods of Coaching

3 Credit(s)

This course is intended to provide the foundations of coaching for a person who wants to coach at the youth, elementary, high school or college level. Through a series of discussions, readings, and other projects, the potential coach will gain the knowledge and skills required to be an effective coach. This course will address the many roles and duties a coach must accept to provide positive experiences for athletes in sport.

KIN 380 - Diversity, Equity Sport, and Society

3 Credit(s)

This course has a two-fold purpose: first, it is designed to provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask questions and think critically about sport as a part of society. This course will explore issues around diversity, equity and inclusion in sport and society.

KIN 436 - Applied Sport Psychology

3 Credit(s)

This course focuses on the practice of sport psychology. The course will review the significance of relevant psychological concept, and develop students' knowledge and skills relevant for applied sport psychology. Students will explore and experience the process of learning, developing and practicing techniques used to improve the athletic performance of individuals, groups, and teams.

Prerequisite(s):

KIN 302

Psychology

PSYC 205 - Adolescent and Adult Development

3 Credit(s)

This course continues the study of life-span development from adolescence through old age and death. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Topics include identity formation, sexual orientation, marriage, models of aging, changes in cognition, social developments, and coping with old age.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 211 - Introduction to Statistics Lecture/Lab

4 Credit(s)

In this course, students will develop a working appreciation of statistical concepts and applications as employed in the behavioral sciences. The course presents descriptive and inferential statistics and their applications. The laboratory component of this course gives students an opportunity to develop skills in using statistical software.

Prerequisite(s):

PSYC 101 Minimum Grade: C- or T

AND

MATH 97 Minimum Grade: S-A or S-B or S-C or T

OR

MATH 99 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 121 Minimum Grade: C- or T

OR

MATH 140 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

LS 225 - Research Skills for Behavioral Sciences

1 Credit(s)

In this one-credit course, Sociology and Psychology majors will learn how to and use a variety of print and electronic resources specific to their discipline. Understanding the process of writing a literature review is the emphasis of the course.

PSYC 245 - Brain and Behavior

3 Credit(s)

This course provides students with a basic overview of the biological processes underlying human behavior. This course begins by presenting fundamental nervous system structure and processes and concludes by examining the role of biology in complex behaviors. Clinical case studies are used to illustrate psychological and neurological disorders. Sample topics include evolution and genetics, neural communication, major brain structures and their functions, human brain damage, sleep and dreaming, drug addiction, memory and amnesia, and stress and illness.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 265 - Personalities in Perspective

3 Credit(s)

This course provides an introduction to the psychodynamic, trait, behavioral, biological, cognitive and humanistic approaches to personality. Specific theories and current research within each approach are reviewed. The course covers such theorists as Freud, Jung, Erikson, Skinner, Bandura, Cattell, Allport, and May.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

OR

PSYC 410 - Social Psychology

3 Credit(s)

This course will examine how social processes impact thoughts, feelings, and behavior through the survey of theory and research. Topics will include attraction, aggression, helping, obedience, attitudes, and prejudice.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

COUN 312 - Introduction to Counseling

3 Credit(s)

This course provides an introduction to the profession of counseling and the importance of interpersonal communication skills and self-awareness across a variety of disciplines. Topics include an introduction to different counseling approaches, such as individual, family, and group counseling.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

OR

PSYC 205 Minimum Grade: C- OR T

PSYC 355 - Research Methods in Psychology

4 Credit(s)

This course focuses on the procedures and potential problems associated with research in the behavioral sciences. Students learn how to develop research questions, choose an appropriate research design, collect and analyze data using statistical software, interpret results, and write a report using APA style. The laboratory component provides supervised hands-on experience in project development.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

LS 225 Minimum Grade: C- OR T

PSYC 386 - Theory and Practice

3 Credit(s)

This course presents the historical underpinnings of the major theories and principles of learning, and how they are used in applied settings. Classic learning theories are contrasted with contemporary approaches. Students will learn cognitive behavioral assessment and intervention strategies. Topics include traditional behavior modification, as well as contemporary social learning theory and cognitive-behavioral change strategies.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

Completion of Six Hours of the Following Electives

PSYC 315 - Multicultural Issues

3 Credit(s)

In this course, students will explore various components of a multicultural society and the impact of social and cultural forces on identity development and formation. The processes of acculturation and assimilation will be discussed. Students will also gain insight into their own cultural experiences in a pluralistic society.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

PSYC 316 - Drugs, Society, and Human Behavior

3 Credit(s)

This course addresses the social, biological, and psychological factors of the major drugs associated with therapeutic and recreational use and abuse. Topics include drug use as a social problem, theories and treatment of addiction, how drugs work, and the detrimental health effects of drug use.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

PSYC 360 - Psychology of Gender

3 Credit(s)

This course will examine gender development from a variety of theoretical approaches, including evolutionary, cognitive, social learning, and cross-cultural. Topics will include how gender influences thinking, communication, interpersonal relationships, education, work, and family.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

PSYC 375 - Human Sexuality

3 Credit(s)

In this multidisciplinary course, students will be introduced to the physiological, medical, sociological, psychological, legal, ethical, moral, and educational facets of human sexuality. Topics in this course include male and female sexual anatomy and sexual response, contraception and disease control, sexually transmitted diseases, and sexual orientation.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 380 - Health Psychology

3 Credit(s)

Health Psychology examines the psychosocial factors relevant to health. The course emphasis will be on the contribution of psychological theory to the encouragement of health and wellness and prevention of physical illness. Topics include stress management, health and behavior, chronic and life threatening illness, treatment, and evaluation of health-related research. PSYC 211 recommended.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 205 Minimum Grade: C- OR T

PSYC 410 - Social Psychology

3 Credit(s)

This course will examine how social processes impact thoughts, feelings, and behavior through the survey of theory and research. Topics will include attraction, aggression, helping, obedience, attitudes, and prejudice.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

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PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

OR

PSYC 265 - Personalities in Perspective

3 Credit(s)

This course provides an introduction to the psychodynamic, trait, behavioral, biological, cognitive and humanistic approaches to personality. Specific theories and current research within each approach are reviewed. The course covers such theorists as Freud, Jung, Erikson, Skinner, Bandura, Cattell, Allport, and May.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 458 - Sensation and Perception

3 Credit(s)

This course examines the physiological and behavioral components of basic sensory processes and the role they play in perception. These sensory systems include vision, audition, the somatic senses (i.e., touch, temperature, and pain) and the chemical senses (i.e., taste and smell). The development and clinical aspects of these sensory systems are also studied. Sample topics include receptors and neural processing, color perception, depth and size perception, perception of movement, speech perception, and the perception of pitch.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

All Psychology Majors

Must participate in an exit interview with a committee of psychology faculty (arranged with advisor).

Bachelor of Arts in Theatre

Go to: Theatre

Specific courses required for this degree:

Completion of the Following Required Courses

THTR 223 - Acting

3 Credit(s)

An introduction to the art of performing using the Stanislavski system of acting. Classes will consist primarily of in-class activities designed to demonstrate acting concepts and principles. This course requires active participation in discussions, exercises, and the presentation of performances.

THTR 230 - Introduction to Devising

3 Credit(s)

This course offers a practical engagement with theatrical devising processes. Devising is a method of making performance work that is an alternative to script-based performance practices. In addition to using readings and class discussion to provide a grounding in understanding devising processes, the course will also be structured as a lab for a hands-on practical experience in devising new work.

Prerequisite(s):

THTR 223 Minimum Grade: C- OR T

THTR 251 - Stagecraft I

3 Credit(s)

An introductory course that explores the basic skills, principles, and techniques of Technical Theatre production: Production Organization & Management, Scenery and Props, Lighting & Electrics, Sound, and Costuming & Makeup. An emphasis on both theory and gaining practical, hands-on experience with Theatre tools, equipment, and common practices.

THTR 265 - Playscript Analysis

3 Credit(s)

This course offers a foundation in script analysis. Utilizing close reading techniques, students will practice reading scripts to garner the critical skills necessary to produce theatrical work. In addition to this focus on production analysis, students will also learn about the historical, cultural and political contexts for each play read to understand the consequences of producing theatrical work in relation to the broader social milieu.

THTR 285 - Production Management

3 Credit(s)

This course presents information, materials, experiences, and projects that will lead students to an understanding of the functions of technical direction and stage and theatre management. It will teach students to become practicing, problem solving technical directors, stage managers and house managers.

Prerequisite(s):

THTR 251 Minimum Grade: C-

THTR 385 - Play Direction

3 Credit(s)

A comprehensive study of the numerous, functions of the stage director, from pre-season play selection to post-production evaluation. The focus will be placed upon script analysis, development of design concepts, principles of blocking and movement, pacing, and communicating with actors and the design team.

Prerequisite(s):

THTR 223 Minimum Grade: C- OR T

THTR 430 - Business of Theatre

3 Credit(s)

This course is an exploration of the business of theatre, with the purpose of preparing students for entrance into the professional and/or academic world of theatre post-graduation.

THTR 480 - Dramatic Theory and Criticism

3 Credit(s)

An advanced examination of selected critical writings of major theorists and critical theories in theatre, beginning with the study of Aristotle and including the application of contemporary theories to a variety of playscripts.

THTR 490 - Senior Thesis

3 Credit(s)

An advanced examination of a single area of theatre. This is the graduating senior's capstone project. The precise nature of the project will be designed in consultation with the student's advisor. Theses may include a significant research and writing project or a creative performing arts project, such as the direction or design or stage management of a play. Instructor permission is required for registration into this course.

**Completion of 6 Hours from 2 sections and 9 hours from one section
(section A, B, & C)**

Unless a History/Lit emphasis is being pursued, then students should complete 6 hours in sections A, B, & C).

Section A: Design and Technology Emphasis

THTR 210 - Stage Makeup

3 Credit(s)

Fundamental elements of design and application of theatre makeup. Painted theatrical makeup, latex, crepe hair, putty wax, prosthetics, and simulated physical trauma will be executed in this course.

THTR 333 - Scenic Design

3 Credit(s)

This is an introductory-level, actively intensive, practical workshop, lecture, & discussion based class examining the

tools, materials, skills and practices of scenic design, while developing creative thinking and visual communication techniques for the theatre designer. The emphasis of the class is on the creative process, from conceptualization to the execution and presentation of the design idea, with a major focus being the exploration and use of unexpected associations, analogies, and visual metaphors as tools for inspiring and creating effective scenic designs.

Prerequisite(s):

THTR 351 Minimum Grade: C- OR T

THTR 334 - Lighting Design

3 Credit(s)

This is an introductory-level, actively intensive, practical workshop, lecture, & discussion based class examining the tools, materials, skills and practices of lighting design, while developing creative thinking and visual communication techniques for the theatre designer. The emphasis of the class is on the creative process, from conceptualization to the execution and presentation of the design idea, with a major focus being the exploration and practical application of the Controllable Qualities of Light, Functions of Stage Light, and Designing with Light, and producing the Lighting plot and related paperwork.

THTR 335 - Theatre Practicum

1 to 3 Credit(s)

Theatre Practicum is an applied course in which a student, in consultation with, and under the supervision of, a faculty member, undertakes a project related to the Design & Technology emphasis. The number of credits for Practicum is determined by the scope of the students project.

THTR 340 - Costume Design

3 Credit(s)

Fundamental elements of design and study of critical historical periods of costume from Greek through present day.

THTR 351 - Stagecraft II

3 Credit(s)

A hands-on approach to the fundamentals of technical theatre. Students will have the opportunity to learn mechanical drawing, stage carpentry, welding, set construction, stage lighting, scenery painting and the use of a variety of fasteners, hand tools, and power tools.

THTR 279 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

OR

THTR 379 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

Section B: Collaborative Creation Emphasis

THTR 205 - Improvisational Acting

3 Credit(s)

This course is an introduction to improvisation as a form of comedy entertainment. Both short and long form will be covered. Completion of this course is a prerequisite for membership in the Adams State University Improvisation Troupe.

THTR 336 - Theatre Practicum

1 to 3 Credit(s)

Theatre Practicum is an applied course in which a student, in consultation with, and under the supervision of, a faculty member, undertakes a project related to the Collaborative Creation emphasis. The number of credits for Practicum is determined by the scope of the students project.

THTR 345 - Improv Troupe Practicum

1 to 3 Credit(s)

Participation in college Improvisation Troupe under the supervision of the Theatre faculty. May be repeated for credit. No more than three credits will count towards major requirements. Instructor permission is required for registration into this course.

Prerequisite(s):

THTR 205 Minimum Grade: C-

THTR 347 - Theatre and Social Change

3 Credit(s)

This course is an introduction to the ideas and practice of theatre as a catalyst for social change. It examines the intersection between theatre, society, and political activism.

THTR 352 - Playwriting

3 Credit(s)

This course introduces the basics of playwriting, its form and structure. Utilizing multiple approaches to writing and capitalizing on the student's own creative thinking, the course will culminate in a staged reading of the students' work.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

THTR 368 - Performance Art

3 Credit(s)

A study of Performance Art with an emphasis on its history, theory, and creation of original performance.

THTR 279 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

THTR 379 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

Section C: Performance Emphasis

THTR 242 - Voice for Performance

3 Credit(s)

Study of the physical nature of voice production and the sound and mechanisms of speech, including articulation, register, and range. Individual analysis and performance.

THTR 288 - Physical Acting

3 Credit(s)

This course focuses on the physical aspects of acting. While previous acting courses introduced techniques dealing with creating a character, script analysis, and scene work, this course explores alternative movement-based approaches to acting. Instructor permission must be obtained to register for this course.

Prerequisite(s):

THTR 223 Minimum Grade: C- OR T

THTR 310 - Advanced Acting Techniques

3 Credit(s)

Advanced study of the techniques of acting. Emphasis will be placed on character and script analysis using the Stanislavski system of acting. Additionally, other significant theories of acting will be introduced. Instructor permission may be obtained to register for this course.

Prerequisite(s):

THTR 223 Minimum Grade: C- OR T

THTR 325 - Styles of Acting

3 Credit(s)

Character analysis and development involved in performing tragedy, serious drama, farce, and high comedy. Instructor permission must be obtained to register for this course.

Prerequisite(s):

THTR 223 Minimum Grade: C- **OR** T

THTR 337 - Theatre Practicum

1 to 3 Credit(s)

Theatre Practicum is an applied course in which a student, in consultation with, and under the supervision of, a faculty member, undertakes a project related to the Performance emphasis. The number of credits for Practicum is determined by the scope of the students project.

THTR 279 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

THTR 379 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

Note

Completion of 9 hours in section D (unless a History/Lit emphasis is being pursued then the student should complete 12 hours)

Section D: History & Literature

ENG 329 - Women and Drama

3 Credit(s)

A survey of the history and literature associated with women in theatre. The course will include the history of actual women involved in the evolution of western and eastern theatre traditions as well as playscripts which deal with the subject of women's issues. There will be a strong emphasis on the incorporation of contemporary dramatic theory, especially feminist theory, to analyze dramatic texts. The course will cover Greek through Contemporary Drama.

Prerequisite(s):

ENG 203 Minimum Grade: C- **OR** T

OR

ENG 210 Minimum Grade: C- **OR** T

OR

THTR 329 - Women and Drama

3 Credit(s)

A survey of the history and literature associated with women in theatre. The course will include the history of actual women involved in the evolution of western and eastern theatre traditions as well as playscripts which deal with the subject of women's issues. There will be a strong emphasis on the incorporation of contemporary dramatic theory, especially feminist theory, to analyze dramatic texts. The course will cover Greek through Contemporary Drama.

ENG 465 - Modern Theatre

3 Credit(s)

Study of theatre history and the diverse trends in dramatic literature during the 19th century and early to mid-20th century, as viewed through the works of the major playwrights of Europe and the United States. The focus of the course will be placed equally upon history, script analysis, and dramaturgy.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

THTR 465 - Modern Theatre

3 Credit(s)

Study of theatre history and the diverse trends in dramatic literature during the 19th century and early to mid-20th century, as viewed through the works of the major playwrights of Europe and the United States. The focus of the course will be placed equally upon history, script analysis, and dramaturgy.

ENG 470 - Classical Theatre

3 Credit(s)

A chronological study of the major periods of theatre history and dramatic literature, from the emergence of Greek Tragedy in the 5th century B.C. to English Restoration Comedy. The focus of the course will be placed equally upon history, script analysis and dramaturgy.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

OR

THTR 470 - Classical Theatre

3 Credit(s)

A chronological study of the major periods of theatre history and dramatic literature, from the emergence of Greek tragedy in the 5th century B.C. to English Restoration Comedy. The focus of the course will be placed equally upon history, script analysis and dramaturgy.

ENG 472 - Contemporary Theatre

3 Credit(s)

An inclusive study of theatre history and dramatic literature from 1965 through the present day with a specific emphasis on multicultural theatre. The focus of the course will be placed equally upon history, script analysis, and dramaturgy.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

THTR 472 - Contemporary Theatre

3 Credit(s)

An inclusive study of theatre history and dramatic literature from 1965 through the present day with a specific emphasis on multicultural theatre. The focus of the course will be placed equally upon history, script analysis, and dramaturgy.

THTR 320 - Censorship and the Arts

3 Credit(s)

This course focuses on the phenomenon of censorship in the United States with a specific emphasis on the First Amendment and case studies of censored artistic expression.

THTR 338 - Theatre Practicum

1 to 3 Credit(s)

Theatre Practicum is an applied course in which a student, in consultation with, and under the supervision of, a faculty member, undertakes a project related to the History & Literature emphasis. The number of credits for Practicum is determined by the scope of the students project.

THTR 279 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

OR

THTR 379 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

Bachelor of Arts in Theatre, Secondary English Licensure

Go to: Bachelor of Arts, Secondary Education Licensure

Go to: Theatre

1. Completion of the following

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

ENG 226 - Introduction to Linguistics

3 Credit(s)

This course is an in-depth introduction to linguistics. It will include discussion of the syntax, phonology, morphology, semantics, and pragmatics of English. Additionally it may include a basic introduction to issues such as historical linguistics, first and second language acquisition, psycholinguistics, sociolinguistics, and other issues relevant to the field.

Prerequisite(s):

ENG-101 Minimum Grade: C- OR T

ENG 227 - Introduction to Creative Writing

3 Credit(s)

Students write and read poetry, fiction, creative nonfiction, and drama, develop aesthetic standards, and evaluate their writing and that of their classmates. Course emphasizes the writing process, including strategies for invention and revision, and presents ideas for teaching creative writing.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

OR

ENG 363 - Professionalization and Publishing

3 Credit(s)

Students will practice writing at an intensive level beyond the research or argument papers they wrote in English 102, and beyond the literary critiques they have written for literature courses. Instruction will focus on real-world skills and

practical applications for writing. The course will also discuss writing-related career paths and professionalization techniques. Except for the senior capstone course, the writing here includes the ultimate writing tasks of the students undergraduate career. It is expected that several items from this course will contribute to the students' senior portfolio.

Prerequisite(s):

Junior or Senior Standing

OR

ENG 416 - The Teaching of Writing

3 Credit(s)

A study of theories about writing through reading, research, reflection, writing and practice. Students will practice the teaching of writing and develop instructional strategies and philosophies for all levels including college.

ENG 309 - British Literature I: Monsters and Magic

3 Credit(s)

This course is the first of a two-course historical survey of British Literature from the sixth to the twenty-first centuries. English 309 starts with the pre-Norman writers and ends in the mid eighteenth century. Eng. 310 begins with the eighteenth century and ends with contemporary authors. This combination of courses will lay the foundation for more advanced, focused study of specific authors and periods in the British literary tradition. Neither 309 or 310 will assume the other as a prerequisite.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

OR

ENG 310 - British Literature II: Bodies and Empire

3 Credit(s)

This course is the second of a two-course historical survey of British Literature from the sixth to the twenty-first centuries. English 309 starts with the pre-Norman writers and ends in the mid eighteenth century. Eng. 310 begins with the eighteenth century and ends with contemporary authors. This combination of courses will lay the foundation for more advanced, focused study of specific authors and periods in the British literary tradition. Neither 309 or 310 will assume the other as a prerequisite.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 316 - Methods/English in Secondary School

3 Credit(s)

A study of effective teaching methods used in presenting grammar, composition, and literature to junior and senior school students. Usually taken as part of the Education licensure senior block. Students should have a strong

preparation in upper-division English content courses. Admission to the Teacher Education Program is required. This course must be taken along with other courses designated in the senior block. Students wishing to take the course who do not meet the above requirements must obtain instructor permission.

Prerequisite(s):

ED 200 Minimum Grade: C OR T
AND

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

AND

ENG 226 Minimum Grade: C- OR T

AND

Admission to the Educator Preparation Program

AND

Teacher Education Background Check Passed

AND

ED 220 Minimum Grade: T

ENG 329 - Women and Drama

3 Credit(s)

A survey of the history and literature associated with women in theatre. The course will include the history of actual women involved in the evolution of western and eastern theatre traditions as well as playscripts which deal with the subject of women's issues. There will be a strong emphasis on the incorporation of contemporary dramatic theory, especially feminist theory, to analyze dramatic texts. The course will cover Greek through Contemporary Drama.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

OR

ENG 365 - Ethnic and Minority Literature

3 Credit(s)

A study of the literature of Native American, African-American, Chicano, and other American ethnic and minority groups.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

OR

ENG 375 - Chicano Literature

3 Credit(s)

This course explores the canon of Chicana/o Literature and its multiple influences. Specifically, the course deals with the cultural, political and societal climates that necessitated the literature. The course will focus on oral tradition and its evolution into other genres of Chicana/o Literature (poetry, fiction, & essay). Chicana/o Literature (poetry, fiction, & essay).

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

OR

ENG 385 - Women and Literature

3 Credit(s)

A survey of literature written by women beginning with Sappho and focusing on the western tradition. An introduction to feminist literary criticism.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

OR

ENG 472 - Contemporary Theatre

3 Credit(s)

An inclusive study of theatre history and dramatic literature from 1965 through the present day with a specific emphasis on multicultural theatre. The focus of the course will be placed equally upon history, script analysis, and dramaturgy.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

THTR 472 - Contemporary Theatre

3 Credit(s)

An inclusive study of theatre history and dramatic literature from 1965 through the present day with a specific emphasis on multicultural theatre. The focus of the course will be placed equally upon history, script analysis, and dramaturgy.

ENG 394 - American Literature I: Discovery and Colonization

3 Credit(s)

Several of the figures studied in this class-such as Christopher Columbus, Anne Bradstreet, Hector St. Jean de Crevecoeur, and Thomas Jefferson-are frequently referenced in contemporary discussions of the American "character," yet are poorly understood by most. A basic knowledge of the literatures of colonial America and the early United States deepens students' understanding of these figures, and hence of American history, culture, politics, and identity. This course complements American Literature II and is required of all English liberal arts and secondary education majors.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

OR

ENG 395 - American Literature II: Marginalized Voices

3 Credit(s)

Survey of American literature from 1865 to the present. Thematic emphases include the development of African American, Native American, and feminist literary traditions; industrialization, urbanization, and the closing of the frontier; realism, naturalism, and modernism; the Lost Generation; and the Sixties and postmodernism.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 403 - Shakespeare

3 Credit(s)

Combines study of comedies, histories, and tragedies.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

SPCH 100 - Speech Fundamentals

3 Credit(s)

A course designed to develop proficiency in oral communication: interpersonal, group, and public discourse.

THTR 223 - Acting

3 Credit(s)

An introduction to the art of performing using the Stanislavski system of acting. Classes will consist primarily of in-class activities designed to demonstrate acting concepts and principles. This course requires active participation in discussions, exercises, and the presentation of performances.

THTR 251 - Stagecraft I

3 Credit(s)

An introductory course that explores the basic skills, principles, and techniques of Technical Theatre production: Production Organization & Management, Scenery and Props, Lighting & Electrics, Sound, and Costuming & Makeup. An emphasis on both theory and gaining practical, hands-on experience with Theatre tools, equipment, and common practices.

THTR 285 - Production Management

3 Credit(s)

This course presents information, materials, experiences, and projects that will lead students to an understanding of the functions of technical direction and stage and theatre management. It will teach students to become practicing, problem solving technical directors, stage managers and house managers.

Prerequisite(s):

THTR 251 Minimum Grade: C-

THTR 310 - Advanced Acting Techniques

3 Credit(s)

Advanced study of the techniques of acting. Emphasis will be placed on character and script analysis using the Stanislavski system of acting. Additionally, other significant theories of acting will be introduced. Instructor permission may be obtained to register for this course.

Prerequisite(s):

THTR 223 Minimum Grade: C- OR T

THTR 333 - Scenic Design

3 Credit(s)

This is an introductory-level, actively intensive, practical workshop, lecture, & discussion based class examining the tools, materials, skills and practices of scenic design, while developing creative thinking and visual communication techniques for the theatre designer. The emphasis of the class is on the creative process, from conceptualization to the execution and presentation of the design idea, with a major focus being the exploration and use of unexpected

associations, analogies, and visual metaphors as tools for inspiring and creating effective scenic designs.

Prerequisite(s):

THTR 351 Minimum Grade: C- OR T

OR

THTR 334 - Lighting Design

3 Credit(s)

This is an introductory-level, actively intensive, practical workshop, lecture, & discussion based class examining the tools, materials, skills and practices of lighting design, while developing creative thinking and visual communication techniques for the theatre designer. The emphasis of the class is on the creative process, from conceptualization to the execution and presentation of the design idea, with a major focus being the exploration and practical application of the Controllable Qualities of Light, Functions of Stage Light, and Designing with Light, and producing the Lighting plot and related paperwork.

OR

THTR 340 - Costume Design

3 Credit(s)

Fundamental elements of design and study of critical historical periods of costume from Greek through present day.

THTR 385 - Play Direction

3 Credit(s)

A comprehensive study of the numerous, functions of the stage director, from pre-season play selection to post-production evaluation. The focus will be placed upon script analysis, development of design concepts, principles of blocking and movement, pacing, and communicating with actors and the design team.

Prerequisite(s):

THTR 223 Minimum Grade: C- OR T

THTR 480 - Dramatic Theory and Criticism

3 Credit(s)

An advanced examination of selected critical writings of major theorists and critical theories in theatre, beginning with the study of Aristotle and including the application of contemporary theories to a variety of playscripts.

THTR 490 - Senior Thesis

3 Credit(s)

An advanced examination of a single area of theatre. This is the graduating senior's capstone project. The precise nature of the project will be designed in consultation with the student's advisor. Theses may include a significant research and writing project or a creative performing arts project, such as the direction or design or stage management of a play. Instructor permission is required for registration into this course.

Plus Additional Secondary Education Licensure Requirements from the School of Education

Bachelor of Arts, Secondary Education Licensure

Bachelor of Arts, K-12 Education Licensure

Go to: Educational Preparation

Undergraduate students typically enter the program in their sophomore or junior year, after completing the Undergraduate General Education Requirements, content coursework, and requirements for their academic major. Students may apply for admission to the Teacher Education Preparation Program, and if admitted, follow the stages of the program.

Choose a Major, and Complete those Requirements

- Bachelor of Arts in Art Education, K-12 Licensure
- Bachelor of Arts in Music Education, K-12 Licensure

Complete the Licensure Requirements

ED 200 - Perspectives of Teaching and Learning

3 Credit(s)

A study of school, societal and cultural issues and their influences on teaching and learning. As an introductory course, the purpose is to learn about teaching as a career choice, the historical development of American education, social and political structures in the schools, and power groups influencing educational policy. Issues of educational reform will include civil rights, students' rights, ethnic, gender and racial issues, individualizing instructions, special education, learning theory models, (inclusive of diversity issues related to electronic media) and alternative school structures. Emphasis is placed on the orientation and development of a proficient and reflective professional educator. A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

ED 220 - The Exceptional Learner

3 Credit(s)

This course is designed to survey the foundations of special education, including historical, philosophical perspectives, legal issues and current trends in instruction and programming. Students will explore the role of general education as it relates to the education of the student with exceptional needs. Emphasis will be placed on developing knowledge of various disabling conditions, available resources and educational alternatives. Students will learn about the ethical and sociopolitical influences on prevention, intervention and educational programs for students with special needs, from birth through post-secondary ages. Learning characteristics and the diverse needs of students who receive special

education services will also be studied. From a pedagogically sound, as well as developmentally appropriate perspective, the similarities and differences within and between exceptionalities and typical development will be emphasized. A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office PRIOR to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

ED 345 - Educational Psychology

3 Credit(s)

Designed to explore the background of educational psychology. Major topic areas include: research, value and utilization, student characteristics and diversity, learning theories and their application, motivation, teaching methods and practices, evaluating student learning, and standardized measurements. Students will develop increased ability to understand and assess the interrelationships of intellectual, cognitive, instructional, personality, social and cultural influences, theories, and factors as they affect the learning environments. Students will cover assessment procedures, analysis of data, legal and ethical responsibilities as part of necessary research and evaluation within the school learning environment. Emphasis is placed on developing knowledge of historical and current research and its meaning for interaction and planning in the school setting.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

ED 347 - Teaching, Learning, and Technology

3 Credit(s)

This course is an introduction to the theories and applications of appropriate and effective uses of technology to achieve pedagogical goals. Content includes exploring emerging technologies, designing lessons aligned to the Colorado Essential Skills, integrating digital tools to strengthen teaching and improve student learning, identifying guidelines for designing and implementing online learning environments, comparing various theories of teaching and learning related to the design of virtual lessons/online programs, and describing effective instructional strategies for online learning. Using technology in K-12 classrooms is relevant to prepare students for success in post-secondary and workforce settings.

Prerequisite(s):

Clear Fingerprint background check

Pass PRAXIS II

Complete Senior Block

- Students must be admitted to the Teacher Education Preparation Program before they complete the Senior Block
- Students must earn a grade of C or better in each of the Senior Block courses.
- Senior Block courses must be taken concurrently.

ED 414 - Inclusive and Safe Classroom Management

3 Credit(s)

This course explores the foundational principles of effective classroom instruction, behavior evaluation, and management techniques while promoting a safe and healthy school environment. This course equips candidates with critical thinking skills to design and implement successful classroom management strategies, emphasizing student achievement through effective time management, communication, and record-keeping procedures. Candidates will also develop comprehensive management plans. Candidates will examine school law and professional ethics for educators. They will gain insights into the legal and ethical frameworks that guide their roles as educators, ensuring they are well-prepared to uphold the highest standards of professionalism and integrity. The content of this course addresses health and wellness topics, including conflict resolution, mediation, nutrition, emergency protocols, and first aid within the educational setting. Candidates will design and implement SEL curricula, considering diverse student needs and crisis prevention and intervention strategies. This course is essential for educators to create a safe, healthy, and inclusive learning environment.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to the Educator Preparation Program; Clear Fingerprint background check

Co-requisite(s): ED 434L

ED 426 - Pedagogical Strategies for Cultural Competence

3 Credit(s)

This is a dynamic and transformative course designed to equip future educators with the essential knowledge and skills to foster cultural competence in the classroom. Students will engage in learning that enhances their ability to use data to better understand and respond to diversity in their respective schools and communities. They will critically examine the impact of cultural values and bias on school curriculum and teacher practice, while applying strategies aimed at creating more culturally responsive experiences for diverse children. Students will also deepen their understanding and practice in working with vulnerable students and families, including those facing abuse, trauma, generational poverty and other forms of crisis.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

Co-requisite(s): ED 434L

ED 429 - Content Area Literacy

2 Credit(s)

Approaches and strategies for teaching secondary reading in various subject areas. Topics include textbook selection and readability, comprehension skills, study skills, and meeting needs of diverse student populations.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to the Educator Preparation Program; Teacher Education Background Check Passed

Co-requisite(s): ED 434L

ED 434L - Field Experience Lab

3 Credit(s)

Senior Block component. Labs scheduled one day per week, eight hours per day. Students complete field hours as arranged by the Teacher Education office. Reflections and proficiencies demonstrated during this experience meet requirements for evidences related to concurrent (senior block) courses. Supervision is provided by senior block course instructors. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

ED 455 - Student Teaching K-12

1 to 15 Credit(s)

This field experience serves as a culmination of the teacher licensure program and provides student teachers with a comprehensive experience in a public school setting. Students must complete all components outlined in the Student Teaching Handbook. A team of faculty supervisors and mentors will help the student teacher acquire the necessary skills in the practice of building a community of learners while teaching and learning. The community of learners includes the student teacher, the cooperating mentor teacher, the university field supervisor, the building principal, and the classroom students. This student teaching experience requires a minimum of 640 hours of contact time.

Prerequisite(s):

Admission to Ed Prep Program; Permission to Student Teach; Clear Fingerprint background check

Bachelor of Arts, Secondary Education Licensure

Go to: Educational Preparation

Students preparing to teach in a content area, grades 7-12, must complete an undergraduate degree in a state-approved content area (business, English, mathematics, science, social studies, foreign language) with coursework and field experience in educational practices, content area literacy, and content methods.

Pick Your Academic Major

- Bachelor of Arts in Biology, Science Education Emphasis with Secondary Teacher Licensure
- Bachelor of Arts in Business Administration, Business Teacher Education Emphasis with Secondary Teacher Licensure
- Bachelor of Arts in Chemistry, Science Education Emphasis with Secondary Teacher Licensure
- Bachelor of Arts in English, Secondary Teacher Licensure
- Bachelor of Arts in Geosciences, Science Education Emphasis with Geosciences Secondary Teacher Licensure
- Bachelor of Arts in HAPS, Social Studies Emphasis with Secondary Teacher Licensure
- Bachelor of Arts in Mathematics, Secondary Teacher Licensure
- Bachelor of Arts in Spanish, Secondary Teacher Licensure
- Bachelor of Arts in Theatre, Secondary English Licensure

Complete All Secondary Licensure Requirements

ED 200 - Perspectives of Teaching and Learning

3 Credit(s)

A study of school, societal and cultural issues and their influences on teaching and learning. As an introductory course, the purpose is to learn about teaching as a career choice, the historical development of American education, social and political structures in the schools, and power groups influencing educational policy. Issues of educational reform will include civil rights, students' rights, ethnic, gender and racial issues, individualizing instructions, special education, learning theory models, (inclusive of diversity issues related to electronic media) and alternative school structures. Emphasis is placed on the orientation and development of a proficient and reflective professional educator. A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

ED 220 - The Exceptional Learner

3 Credit(s)

This course is designed to survey the foundations of special education, including historical, philosophical perspectives, legal issues and current trends in instruction and programming. Students will explore the role of general education as it

relates to the education of the student with exceptional needs. Emphasis will be placed on developing knowledge of various disabling conditions, available resources and educational alternatives. Students will learn about the ethical and sociopolitical influences on prevention, intervention and educational programs for students with special needs, from birth through post-secondary ages. Learning characteristics and the diverse needs of students who receive special education services will also be studied. From a pedagogically sound, as well as developmentally appropriate perspective, the similarities and differences within and between exceptionalities and typical development will be emphasized. A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office PRIOR to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

ED 345 - Educational Psychology

3 Credit(s)

Designed to explore the background of educational psychology. Major topic areas include: research, value and utilization, student characteristics and diversity, learning theories and their application, motivation, teaching methods and practices, evaluating student learning, and standardized measurements. Students will develop increased ability to understand and assess the interrelationships of intellectual, cognitive, instructional, personality, social and cultural influences, theories, and factors as they affect the learning environments. Students will cover assessment procedures, analysis of data, legal and ethical responsibilities as part of necessary research and evaluation within the school learning environment. Emphasis is placed on developing knowledge of historical and current research and its meaning for interaction and planning in the school setting.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

ED 347 - Teaching, Learning, and Technology

3 Credit(s)

This course is an introduction to the theories and applications of appropriate and effective uses of technology to achieve pedagogical goals. Content includes exploring emerging technologies, designing lessons aligned to the Colorado Essential Skills, integrating digital tools to strengthen teaching and improve student learning, identifying guidelines for designing and implementing online learning environments, comparing various theories of teaching and learning related to the design of virtual lessons/online programs, and describing effective instructional strategies for online learning. Using technology in K-12 classrooms is relevant to prepare students for success in post-secondary and workforce settings.

Prerequisite(s):

Clear Fingerprint background check

Complete Content Methods for your Area

ED 304 - Secondary Teaching and Learning Methods

3 Credit(s)

This course is an introduction to concepts and techniques of imparting state academic standards to middle and high

school students. A study of effective teaching methods used in preparing a secondary education majors in Business, Language Arts, Social Studies, and World Languages.

NOTE:

- A 40-hour, pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field-experience. Photo IDs must be obtained PRIOR to the beginning of the field-experience component.
- Field-experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

ED 340 - Methods for Teaching Math - Secondary

3 Credit(s)

This course is designed to support the beginning secondary math teacher. Presuming a solid foundation of conceptual knowledge in the content area, the course emphasizes the development of a framework of instructional knowledge and skills to provide successful learning for all students.

NOTE:

- A 40 hour pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

ED 350 - Methods for Teaching Science - Secondary

3 Credit(s)

This course is designed to support the beginning secondary science teacher. Presuming a solid foundation of conceptual knowledge in the content area, the course emphasizes the development of a framework of instructional knowledge and skills to provide successful learning for all students.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

Pass PRAXIS II

Complete Senior Block (EPP Admission Required)

ED 414 - Inclusive and Safe Classroom Management

3 Credit(s)

This course explores the foundational principles of effective classroom instruction, behavior evaluation, and management techniques while promoting a safe and healthy school environment. This course equips candidates with critical thinking skills to design and implement successful classroom management strategies, emphasizing student achievement through effective time management, communication, and record-keeping procedures. Candidates will also develop comprehensive management plans. Candidates will examine school law and professional ethics for educators. They will gain insights into the legal and ethical frameworks that guide their roles as educators, ensuring they are well-prepared to uphold the highest standards of professionalism and integrity. The content of this course addresses health and wellness topics, including conflict resolution, mediation, nutrition, emergency protocols, and first aid within the educational setting. Candidates will design and implement SEL curricula, considering diverse student needs and crisis prevention and intervention strategies. This course is essential for educators to create a safe, healthy, and inclusive learning environment.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to the Educator Preparation Program; Clear Fingerprint background check

Co-requisite(s): ED 434L

ED 426 - Pedagogical Strategies for Cultural Competence

3 Credit(s)

This is a dynamic and transformative course designed to equip future educators with the essential knowledge and skills to foster cultural competence in the classroom. Students will engage in learning that enhances their ability to use data to better understand and respond to diversity in their respective schools and communities. They will critically examine the impact of cultural values and bias on school curriculum and teacher practice, while applying strategies aimed at creating more culturally responsive experiences for diverse children. Students will also deepen their understanding and practice in working with vulnerable students and families, including those facing abuse, trauma, generational poverty and other forms of crisis.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

Co-requisite(s): ED 434L

ED 429 - Content Area Literacy

2 Credit(s)

Approaches and strategies for teaching secondary reading in various subject areas. Topics include textbook selection and readability, comprehension skills, study skills, and meeting needs of diverse student populations.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to the Educator Preparation Program; Teacher Education Background Check Passed

Co-requisite(s): ED 434L

ED 434L - Field Experience Lab

3 Credit(s)

Senior Block component. Labs scheduled one day per week, eight hours per day. Students complete field hours as arranged by the Teacher Education office. Reflections and proficiencies demonstrated during this experience meet requirements for evidences related to concurrent (senior block) courses. Supervision is provided by senior block course instructors. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

Complete Student Teaching

ED 445 - Student Teaching - Secondary

1 to 15 Credit(s)

This field experience serves as a culmination of the teacher licensure program and provides student teachers with a comprehensive experience in a public school setting. Students must complete all components outlined in the Student Teaching Handbook. A team of faculty supervisors and mentors will help the student teacher acquire the necessary skills in the practice of building a community of learners while teaching and learning. The community of learners includes the student teacher, the cooperating mentor teacher, the university field supervisor, the building principal, and

the classroom students. This student teaching experience requires a minimum of 640 hours of contact time.

Prerequisite(s):

Admission to Ed Prep Program; Permission to Student Teach; Clear Fingerprint background check

Bachelors of Arts in Interdisciplinary Studies in Mechanical Engineering

The Bachelors of Arts in Interdisciplinary Studies in Mechanical Engineering is designed exclusively for student athletes who intend to pursue a degree in Mechanical Engineering through the Adams State partnership program with Colorado State University Fort Collins.

Students will be advised into either the 4-year or 5-year plan depending on Math placement and athletic eligibility. The coursework in this program is identical to that of the BS in Engineering, although courses are completed in a different sequence allowing student athletes to remain eligible to compete for Adams State throughout their time in the program.

Student athletes interested in transferring to Colorado State to complete the BS in Mechanical Engineering degree should complete the courses listed on the semester plan provided by their advisor. Students are encouraged to work very closely with their advisor.

Engineering Degree Requirements

First Year Seminar

FYS 101 - First Year Seminar

1 to 3 Credit(s)

First-year students launch into the Adams Experience through a First-Year Seminar (FYS) course. FYS will engage students by creating habits for success, learning to navigate college life, and build skills for success. Each FYS will focus on a unique topic that will be the theme of course discussions, experiences, and assignments. FYS will develop academic and social capital and support a successful transition into higher education, instill lifelong learning, and reinforce student persistence.

General Education Requirements for the Engineering Degree

Area I - Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to

take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T

OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II - Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and

construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III - Mathematics

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

Area IV - Social and Behavioral Sciences and History

One course designated as GT-SS1 (3 credits)

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

One course designated as GT-HI1 (3 credits)

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V - Natural and Physical Sciences

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

The Following Required Courses

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T

AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

Additional Mathematics Courses

MATH 220 - Calculus III

4 Credit(s)

This course is an introduction to the calculus of functions of several variables. Typical topics include three-dimensional analytic geometry, vectors, parametric curves and surfaces, arc length and curvature, limits, continuity, partial derivatives, gradients, directional derivatives, tangent planes, multiple integrals, vector fields, line and surface integrals, Green's theorem, Stokes' Theorem, and the divergence theorem.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 327 - Differential Equations

3 Credit(s)

An introduction to the study and application of ordinary differential equations. Typical topics include first order differential equations, linear differential equations, systems of equations, existence and uniqueness of solutions, bifurcations, the Laplace transform, matrix methods, and stability theorems.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

Colorado State University Engineering Courses (21 credits)

Find out more about these courses by using Colorado State's Online Catalog

- MECH 307 Mechatronics and Measurement
- MECH 324 Dynamics of Machines
- MECH 337 Thermodynamics

- MECH 342 Fluid Mechanics for Mechanical Engineers
- MECH 344 Heat and Mass Transfer
- MECH 325 Machine Design

Required Courses for the 4 Year Plan

- 1 elective course in Mathematics
- 21 general elective credits
- 21 upper division elective credits

Required Courses for the 5 Year Plan

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T
OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T
OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

- 16 general elective credits
- 21 upper division elective credits

Bachelor of Fine Arts in 3D Form and Extended Media

Go to: Art

Specific courses required for this degree:

Core Requirements (75 Credits)

AR 105 - Introduction to Art Criticism

3 Credit(s)

This course introduces students to art criticism and critical thinking in the field of visual art. Exercises in reading about art, observing art, and talking and writing about art, will develop the student's ability to discuss their own work and a wide variety of artworks by others. Students will be introduced to and practice techniques for reading, thinking, writing, and speaking critically as applied to art.

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

AR 252 - Beginning 3D - Form and Extended Media

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to fabrication and subtractive processes and materials. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in introductory metal fabrication, CAD/CAM technology, metal casting, and wood or stone carving. This course has a course specific fee to cover the costs of some materials.

AR 364 - History of Art I

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms prehistoric times to the Eighteenth Century.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 365 - History of Art II

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms from the 18th Century to the 21st Century. Additionally this course includes a brief survey of the arts of African, Asian, and Native American cultures.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

- AR 3XX - Art History/Theatre History **3 Credit(s)**

AR 305 - Art Theory

3 Credit(s)

A lecture course that covers major themes in art theory and asks students to articulate which aspects of art theory relate to their studio work and how they relate.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AND

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

AR 405 - Seminar in Art

3 Credit(s)

This course is a seminar class that combines research into art theory and art history with discussions about the conceptual, formal and technical aspects of studio work.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

AR 498 - Professional Practice

3 Credit(s)

Designed to be the capstone experience for all students who have majored in Art. Students will organize a group exhibition of their work and prepare portfolios and other tools for professional futures. Emphasis will be placed on responsible teamwork and professionalism.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

AR XXX: 2D Elective (3 Hours)

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR XXX: Design Elective

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 306 - Illustrator

3 Credit(s)

This course is an advanced design class. Using Adobe Illustrator, students will study design concepts related to computer graphics, illustration, and typography as well as historical traditions in graphic design.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T

OR

AR 281 Minimum Grade: C- OR T

AR 310 - Photoshop

3 Credit(s)

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T

OR

AR 281 Minimum Grade: C- OR T

3D Material Studies Core

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 454 - Advanced 3D Material Study I

3 Credit(s)

Students will engage in advanced sculptural work using diverse materials. This course offers studio assignments that question and solidify artistic vocabulary and studio work. Curriculum includes regular seminar discussions and presentations based on assigned readings and local lectures. Contemporary issues and ideas in sculpture and material studies are a primary focus of these discussions. This course places a strong emphasis on establishing studio works and complete artist's portfolios. There is a specific course fee to cover the cost of some materials.

AR 497 - BFA Exhibition

6 Credit(s)

A capstone course that involves the creation and exhibition of a cohesive body of creative work.

Prerequisite(s):

BFA Thesis Passed

Co-requisite(s): AR 498

Plus 12 Hours From

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing

3 Credit(s)

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course

emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-

OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

Bachelor of Fine Arts in Drawing

Go to: [Art](#)

Specific courses required for this degree:

Core Requirements (75 Credits)

AR 105 - Introduction to Art Criticism

3 Credit(s)

This course introduces students to art criticism and critical thinking in the field of visual art. Exercises in reading about art, observing art, and talking and writing about art, will develop the student's ability to discuss their own work and a wide variety of artworks by others. Students will be introduced to and practice techniques for reading, thinking, writing, and speaking critically as applied to art.

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

AR 252 - Beginning 3D - Form and Extended Media

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to fabrication and subtractive processes and materials. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in introductory metal fabrication, CAD/CAM technology, metal casting, and wood or stone carving. This course has a course specific fee to cover the costs of some materials.

AR 364 - History of Art I

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms prehistoric times to the Eighteenth Century.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 365 - History of Art II

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms from the 18th Century to the 21st Century. Additionally this course includes a brief survey of the arts of African, Asian, and Native American cultures.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

- AR 3XX - Art History/Theatre History **3 Credit(s)**

AR 305 - Art Theory

3 Credit(s)

A lecture course that covers major themes in art theory and asks students to articulate which aspects of art theory relate to their studio work and how they relate.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T
AND

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

AR 405 - Seminar in Art

3 Credit(s)

This course is a seminar class that combines research into art theory and art history with discussions about the conceptual, formal and technical aspects of studio work.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

AR 498 - Professional Practice

3 Credit(s)

Designed to be the capstone experience for all students who have majored in Art. Students will organize a group exhibition of their work and prepare portfolios and other tools for professional futures. Emphasis will be placed on responsible teamwork and professionalism.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

AR XXX: 2D Elective (3 Hours)

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR XXX: 3D Elective (3 Hours)

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and

glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing

3 Credit(s)

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

AR XXX: 2D or 3D Elective (3 Hours)

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 320 - Intermediate Painting I

3 Credit(s)

Intermediate study of painting media with emphasis on perceptual abilities and personal expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- or T
AND

AR 220 Minimum Grade: C- or T

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills

related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing

3 Credit(s)

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

AR XXX: Design Elective

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 306 - Illustrator

3 Credit(s)

This course is an advanced design class. Using Adobe Illustrator, students will study design concepts related to computer graphics, illustration, and typography as well as historical traditions in graphic design.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

AR 310 - Photoshop

3 Credit(s)

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

Drawing Emphasis

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR 309 - Intermediate Drawing II

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 308 Minimum Grade: C- OR T

AR 410 - Advanced Drawing I

3 Credit(s)

Advanced personal concepts, media experimentation, and aesthetics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 309 Minimum Grade: C- OR T

AR 411 - Advanced Drawing II

3 Credit(s)

Exploration of drawing as a medium for expression with emphasis on developing a personal style. Progress towards developing a cohesive body of work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 410 Minimum Grade: C- OR T

Plus 6 Credits From

- AR XXX - Art Studio Elective **3 Credit(s)**

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 360 - Intermediate Printmaking

3 Credit(s)

Further exploration of printmaking using all processes. Emphasis on composition, media exploration, and color processes. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 260 Minimum Grade: C- OR T
OR

AR 261 Minimum Grade: C- OR T

AR 497 - BFA Exhibition

6 Credit(s)

A capstone course that involves the creation and exhibition of a cohesive body of creative work.

Prerequisite(s):

BFA Thesis Passed

Co-requisite(s): AR 498

- Elective Credits **14 Credit(s)**

Bachelor of Fine Arts in Graphic Design

Go to: [Art](#)

Specific courses required for this degree:

Core Requirements (75 Credits)

AR 105 - Introduction to Art Criticism

3 Credit(s)

This course introduces students to art criticism and critical thinking in the field of visual art. Exercises in reading about art, observing art, and talking and writing about art, will develop the student's ability to discuss their own work and a wide variety of artworks by others. Students will be introduced to and practice techniques for reading, thinking, writing, and speaking critically as applied to art.

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 252 - Beginning 3D - Form and Extended Media

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to fabrication and subtractive processes and materials. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in introductory metal fabrication, CAD/CAM technology, metal casting, and wood or stone carving. This course has a course specific fee to cover the costs of some materials.

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 364 - History of Art I

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms prehistoric times to the Eighteenth Century.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 365 - History of Art II

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms from the 18th Century to the 21st Century. Additionally this course includes a brief survey of the arts of African, Asian, and Native American cultures.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

- AR 3XX - Art History/Theatre History **3 Credit(s)**

AR 305 - Art Theory

3 Credit(s)

A lecture course that covers major themes in art theory and asks students to articulate which aspects of art theory relate to their studio work and how they relate.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AND

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

AR 405 - Seminar in Art

3 Credit(s)

This course is a seminar class that combines research into art theory and art history with discussions about the conceptual, formal and technical aspects of studio work.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

AR 498 - Professional Practice

3 Credit(s)

Designed to be the capstone experience for all students who have majored in Art. Students will organize a group exhibition of their work and prepare portfolios and other tools for professional futures. Emphasis will be placed on responsible teamwork and professionalism.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

AR XXX: 2D Elective (3 Hours)

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own

35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR 320 - Intermediate Painting I

3 Credit(s)

Intermediate study of painting media with emphasis on perceptual abilities and personal expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- or T

AND

AR 220 Minimum Grade: C- or T

AR XXX: 3D Elective (3 Hours)

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting**3 Credit(s)**

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture**3 Credit(s)**

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing**3 Credit(s)**

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

AR XXX: 2D or 3D Elective (3 Hours)

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR 320 - Intermediate Painting I

3 Credit(s)

Intermediate study of painting media with emphasis on perceptual abilities and personal expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- or T
AND

AR 220 Minimum Grade: C- or T

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative

expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing

3 Credit(s)

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

15 Credits From

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 301 - Typography

3 Credit(s)

This course is intended primarily for art majors who chose graphic design as their area of emphasis. It is also open to any other art major or non-art major. This course will focus on a broad study of typography, its terminology, history, and application in the field of graphic design.

Prerequisite(s):

AR 206 Minimum Grade: C- OR T

AR 306 - Illustrator

3 Credit(s)

This course is an advanced design class. Using Adobe Illustrator, students will study design concepts related to computer graphics, illustration, and typography as well as historical traditions in graphic design.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T

OR

AR 281 Minimum Grade: C- OR T

AR 310 - Photoshop

3 Credit(s)

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

AR 312 - Design for the Internet**3 Credit(s)**

This course will provide an introduction to theories and practical experience with graphic design as applied to the Internet. Students will study the basics in web page and web site design using current industry standard software, HTML and XHTML. Within the course, students will create web pages and sites suitable for course work, professional purposes, and personal use. Students will also explore common web page formats and functions. Emphasis will be on the aesthetics of Internet design.

AR 401 - Advanced Graphic Design**3 Credit(s)**

An advanced study of the design relating to the work of the graphic designer. Students learn PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 306 Minimum Grade: C- OR T
AND

AR 310 Minimum Grade: C- OR T

AR 381 - Intermediate Digital Photography**3 Credit(s)**

Continued exploration of digital photography as an art medium. The course will delve further into photographic applications in Adobe Photoshop with emphasis on maximizing image quality using masks and blending modes. Introduction to fine art printing and papers. Emphasis on concept and creative expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 281 Minimum Grade: C- OR T

- ART Studio Elective **3 Credit(s)**

AR 497 - BFA Exhibition**6 Credit(s)**

A capstone course that involves the creation and exhibition of a cohesive body of creative work.

Prerequisite(s):

BFA Thesis Passed

Co-requisite(s): AR 498

Elective Credits (14 Credits)

Bachelor of Fine Arts in Painting

Go to: Art

Specific courses required for this degree:

Core Requirements

AR 105 - Introduction to Art Criticism

3 Credit(s)

This course introduces students to art criticism and critical thinking in the field of visual art. Exercises in reading about art, observing art, and talking and writing about art, will develop the student's ability to discuss their own work and a wide variety of artworks by others. Students will be introduced to and practice techniques for reading, thinking, writing, and speaking critically as applied to art.

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

AR 252 - Beginning 3D - Form and Extended Media

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to fabrication and subtractive processes and materials. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in introductory metal fabrication, CAD/CAM technology, metal casting, and wood or stone carving. This course has a course specific fee to cover the costs of some materials.

AR 364 - History of Art I

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms prehistoric times to the Eighteenth Century.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 365 - History of Art II

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms from the 18th Century to the 21st Century. Additionally this course includes a brief survey of the arts of African, Asian, and Native American cultures.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

- AR 3XX - Art History/Theatre History **3 Credit(s)**

AR 305 - Art Theory

3 Credit(s)

A lecture course that covers major themes in art theory and asks students to articulate which aspects of art theory relate to their studio work and how they relate.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AND

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

AR 405 - Seminar in Art

3 Credit(s)

This course is a seminar class that combines research into art theory and art history with discussions about the conceptual, formal and technical aspects of studio work.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

AR 498 - Professional Practice

3 Credit(s)

Designed to be the capstone experience for all students who have majored in Art. Students will organize a group exhibition of their work and prepare portfolios and other tools for professional futures. Emphasis will be placed on responsible teamwork and professionalism.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

AR XXX: 2D Elective (3 Hours)

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR XXX: 3D Elective (3 Hours)

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual

work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing

3 Credit(s)

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

AR XXX: 2D or 3D Elective (3 Hours)

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such

as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR 320 - Intermediate Painting I

3 Credit(s)

Intermediate study of painting media with emphasis on perceptual abilities and personal expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- or T

AND

AR 220 Minimum Grade: C- or T

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing

3 Credit(s)

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

AR XXX: Design Elective

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 306 - Illustrator

3 Credit(s)

This course is an advanced design class. Using Adobe Illustrator, students will study design concepts related to computer graphics, illustration, and typography as well as historical traditions in graphic design.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

AR 310 - Photoshop

3 Credit(s)

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

Emphasis Requirements

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR 320 - Intermediate Painting I

3 Credit(s)

Intermediate study of painting media with emphasis on perceptual abilities and personal expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- or T

AND

AR 220 Minimum Grade: C- or T

AR 321 - Intermediate Painting II

3 Credit(s)

Intermediate study of painting media with emphasis on perceptual abilities and personal expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 320 Minimum Grade: C- OR T

AR 422 - Advanced Painting I

3 Credit(s)

Advanced studio problems, emphasizing perceptual and conceptual abilities and personal expression as related to painting media. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 321 Minimum Grade: C- OR T

AR 423 - Advanced Painting II

Advanced studio problems, emphasizing perceptual and conceptual abilities and personal expression as related to painting media. This course has a course specific fee to cover the costs of some materials.

AR 497 - BFA Exhibition

6 Credit(s)

A capstone course that involves the creation and exhibition of a cohesive body of creative work.

Prerequisite(s):

BFA Thesis Passed

Co-requisite(s): AR 498

Elective Credits (14 Credits)

Bachelor of Fine Arts in Photography

Go to: Art

Specific courses required for this degree:

Core Requirements

AR 105 - Introduction to Art Criticism

3 Credit(s)

This course introduces students to art criticism and critical thinking in the field of visual art. Exercises in reading about art, observing art, and talking and writing about art, will develop the student's ability to discuss their own work and a wide variety of artworks by others. Students will be introduced to and practice techniques for reading, thinking, writing, and speaking critically as applied to art.

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

AR 252 - Beginning 3D - Form and Extended Media

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to fabrication and subtractive processes and materials. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in introductory metal fabrication, CAD/CAM technology, metal casting, and wood or stone carving. This course has a course specific fee to cover the costs of some materials.

AR 364 - History of Art I

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms prehistoric times to the Eighteenth Century.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 365 - History of Art II

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms from the 18th Century to the 21st Century. Additionally this course includes a brief survey of the arts of African, Asian, and Native American cultures.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

- AR 3XX - Art History/Theatre History **3 Credit(s)**

AR 305 - Art Theory

3 Credit(s)

A lecture course that covers major themes in art theory and asks students to articulate which aspects of art theory relate to their studio work and how they relate.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T
AND

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

AR 405 - Seminar in Art

3 Credit(s)

This course is a seminar class that combines research into art theory and art history with discussions about the conceptual, formal and technical aspects of studio work.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

AR 498 - Professional Practice

3 Credit(s)

Designed to be the capstone experience for all students who have majored in Art. Students will organize a group exhibition of their work and prepare portfolios and other tools for professional futures. Emphasis will be placed on responsible teamwork and professionalism.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

AR XXX: 2D Elective (3 Hours)

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR XXX: 3D Elective (3 Hours)

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-

OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing

3 Credit(s)

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course

emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-

OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

AR XXX: 2D or 3D Elective (3 Hours)

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR 320 - Intermediate Painting I

3 Credit(s)

Intermediate study of painting media with emphasis on perceptual abilities and personal expression. This course has a

course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- or T
AND

AR 220 Minimum Grade: C- or T

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-

OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing**3 Credit(s)**

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing**3 Credit(s)**

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes**3 Credit(s)**

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-

OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking**3 Credit(s)**

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber,

traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

AR XXX: Design Elective

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 306 - Illustrator

3 Credit(s)

This course is an advanced design class. Using Adobe Illustrator, students will study design concepts related to computer graphics, illustration, and typography as well as historical traditions in graphic design.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

AR 310 - Photoshop

3 Credit(s)

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

Photography Emphasis Requirements

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 380 - Intermediate Photography

3 Credit(s)

Continued exploration of photography as an art medium using traditional darkroom techniques. Emphasis on concept and creative expression. Introduction to color, pinhole, large format, and non-silver techniques. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 280 Minimum Grade: C- OR T

AR 381 - Intermediate Digital Photography

3 Credit(s)

Continued exploration of digital photography as an art medium. The course will delve further into photographic applications in Adobe Photoshop with emphasis on maximizing image quality using masks and blending modes. Introduction to fine art printing and papers. Emphasis on concept and creative expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 281 Minimum Grade: C- OR T

AR 484 - Advanced Photography I

3 Credit(s)

Continued exploration of photography as an art medium with emphasis on expression and technique. Emphasis on development of a personal style and approach to the medium. Students will work with the instructor to determine techniques appropriate for their individual goals. Digital Techniques will be emphasized during the spring semester and traditional techniques in the fall semester. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 380 Minimum Grade: C- OR T
OR

AR 381 Minimum Grade: C- OR T

AR 485 - Advanced Photography II

3 Credit(s)

Continued exploration of photography as an art medium with emphasis on expression and technique. Emphasis on development of a personal style and approach to the medium. Students will work with the instructor to determine techniques appropriate for their individual goals. Digital Techniques will be emphasized during the spring semester and traditional techniques in the fall semester. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 484 Minimum Grade: C- OR T

AR 497 - BFA Exhibition

6 Credit(s)

A capstone course that involves the creation and exhibition of a cohesive body of creative work.

Prerequisite(s):

BFA Thesis Passed

Co-requisite(s): AR 498

AR XXX: Art Studio Elective (3 Hours)

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

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Prerequisite(s):

AR 252 Minimum Grade: C-

OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting**3 Credit(s)**

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Prerequisite(s):

AR 252 Minimum Grade: C-

OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture**3 Credit(s)**

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

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This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

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Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking**3 Credit(s)**

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-

dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

Bachelor of Science / Masters of Business Administration - 5 Year Program

Go to: Business

The 5-year B.S./M.B.A. helps exceptional Adams State students get a head start in their career in business. The program provides a solid foundation for students to launch a successful career in business. The curriculum allows students several options so they can customize their degree to an emphasis in business most relevant to their career goals. Students must work closely with their advisor to determine appropriate courses for these emphases.

The B.S./M.B.A. provides a seamless transition from an undergraduate program to the graduate program, allowing students to cultivate and strengthen their business expertise and maintain the M.B.A. advantage that is sought after in today's highly competitive, global marketplace. The five-year B.S./M.B.A. program is designed for motivated students who are prepared for a streamlined, integrated academic experience that responds to the rapidly changing global environment of today's business world. The B.S./M.B.A. program is ideal for those who want to fast-track their careers while building sustainable skills with innovative and interactive curricula. Students are grounded in applications-based learning that engages new technologies, global perspectives, and ethics-based best practices.

Note: The B.S. portion of the B.S./M.B.A. program is offered either online or face to face. The M.B.A. portion of the program is ONLY offered online.

Admission Requirements for Combined Bachelor's/M.B.A. Degree Program

Undergraduates enrolled in a bachelor's degree program at Adams State University who have completed 75 credit hours of course work toward their degrees and have a cumulative GPA of 3.0 or above may apply for admission to a combined bachelor's/M.B.A. degree program. This program has been established to encourage students with strong scholarly interests to begin their M.B.A. program during their junior year and to provide flexibility in the scheduling and completion of undergraduate requirements along with their graduate course requirements for the M.B.A. degree. The graduate degree will be awarded only after, or concurrently with, the award of Baccalaureate. There are two categories that could qualify a student for acceptance:

1. The student may be enrolled in either a graduate or undergraduate degree program, taking both undergraduate and graduate courses, with two degrees being conferred only when the requirements for both are completed. This student must be monitored and eligibility for certain financial aid programs may be restricted. A "500-Level Course Evaluation" form must be completed and approved by the M.B.A. director and the School of Business chair prior to registration. A student must have completed 90 credit hours prior to starting 500-level courses.
2. The student is an undergraduate taking graduate course(s) as part of their undergraduate degree program. The courses are being used to complete the undergraduate degree. This student is treated for financial aid purposes as a normal undergraduate student and no special financial aid processing is required.

Until students accumulate 120 total credit hours bachelor/M.B.A., they will be classified as undergraduates for financial aid and College Opportunity Fund (COF) purposes (COF applies to courses numbered 100, 200, 300, and 400 only).

Core Courses for both the BS and MBA portions of the Degree

Note:

- Courses required for emphases are not included in the Core Course Requirements
- ASU undergraduate/M.B.A. students may count up to 30 credits from 300-400-500 level (no more than 18 credits from 500 level) Business, Economics or Health Care Administration Courses.

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Master of Business Administration Core Requirements

BUS 500 - Leadership Skills for Managers

3 Credit(s)

This course teaches practical skills required for effective management at all levels of an organization, and is designed to increase a learner's understanding of key concepts and procedural guidelines related to organizational management, human resource, and leadership. The purpose is to be equipped to deal effectively with managerial challenges dealing with people.

BUS 505 - Creating Consumer Value

3 Credit(s)

This course presents learners with a comprehensive approach to creating consumer value. This includes marketing and brand management in for-profit firms as well as identifying and meeting consumer needs in non-profit and governmental organizations. Topics include segmentation and targeting of consumers; the positioning levers of product, price, promotion, and distribution; and brand management.

ECON 505 - Managerial Economics

3 Credit(s)

This course demonstrates how economics theory is applied to national and international managerial decision-making. The course covers topics such as demand analysis, production and cost functions, market structure, managerial understanding of public policy, and international trade finance topics. Pre-req.-Undergraduate Economics course with a grade of C or higher.

BUS 520 - Managerial Accounting

3 Credit(s)

This course provides a review of financial reporting standards and statements and analysis of those financial statements. Managerial accounting principles will be explored as well as budgeting, cost allocation, accumulation, cost behavior, and relevant costs; revenues are approached from a managers' perspective. Prerequisite: undergraduate accounting course with a grade of C or higher.

BUS 525 - Financial Analysis

3 Credit(s)

Students will embark on studying basic financial principles and enhance that with understanding various valuation concepts and methods. Emphasis is also placed on capital budgeting and long term financing as well as working capital management. The course will blend time-tested finance principles and the latest advancements with the practical perspectives of the financial manager. Prerequisite: undergraduate accounting course with a grade of C or higher.

Prerequisite(s):

BUS 520 Minimum Grade: C

BUS 540 - Strategy

3 Credit(s)

In this course, learners examine tools and techniques for competitive analysis, strategic planning, and strategy implementation. Learners gain knowledge of the tools and concepts needed to develop a business strategy including macro environmental scanning, industry and competitive analysis, value chain analysis, SWOT analysis, identification of critical success factors and driving forces, and development of strategic alternatives and recommendations.

Bachelor of Science in Biochemistry

Go to: Chemistry

Specific courses required for this degree:

Completion of the Following Required Courses

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in

biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

CHEM 321 - Organic Chemistry

4 Credit(s)

A study of the relationship between structure and reactivity of carbon-containing compounds.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 321L

CHEM 321L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 321. Laboratory time will be divided among techniques, preparation, and mechanistic studies.

Co-requisite(s): CHEM 321

CHEM 322 - Organic Chemistry

4 Credit(s)

A continuation of CHEM 321.

Prerequisite(s):

CHEM 321 Minimum Grade: C- OR T

Co-requisite(s): CHEM 322L

CHEM 322L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-322. Laboratory time will be divided among mechanistic studies, preparation, introductory qualitative analysis, and independent project work.

Co-requisite(s): CHEM-322

CHEM 331 - Analytical Chemistry

3 Credit(s)

The theory and application of classical and instrumental quantitative analysis with additional emphasis on the fate and analysis of chemicals in the environment.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T
AND

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): CHEM 331L

CHEM 331L - Analytical Chemistry Lab

2 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-331

Co-requisite(s): CHEM-331

CHEM 332 - Analytical Chemistry

3 Credit(s)

A continuation of CHEM 331 with additional coverage of chemical equilibria and electrochemistry.

Prerequisite(s):

CHEM 331 Minimum Grade: D OR T

Co-requisite(s): CHEM 332L

CHEM 332L - Analytical Chemistry Lab

2 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 332.

Co-requisite(s): CHEM 332

CHEM 401 - Biochemistry

3 Credit(s)

A study of structural biochemistry. Course begins with a review of water, the lipophilic environment, noncovalent

bonding, and bioenergetics. Topics include amino acids, peptides, proteins, nucleic acids, carbohydrates, and lipids. Enzymes are discussed with emphasis on mechanism and kinetics.

Prerequisite(s):

CHEM 322 Minimum Grade: C- OR T

Co-requisite(s): CHEM 401L

CHEM 401L - Biochemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-401. Laboratory time will be spent learning protein purification techniques and doing independent project work.

Co-requisite(s): CHEM-401

CHEM 402 - Biochemistry II

3 Credit(s)

A study of biochemical metabolism. Topics include catabolism, anabolism, and metabolic control. Three hours of lecture per week.

Prerequisite(s):

CHEM 401 Minimum Grade: C- OR T

CHEM 431 - Physical Chemistry Lecture/Thermodynamics

3 Credit(s)

Thermodynamics as applied to chemistry and physics. Specific topics include the laws of thermodynamics, thermochemistry, reaction and phase equilibrium, solutions, and electrochemistry. An introduction to chemical kinetics is included.

Prerequisite(s):

CHEM-132 Minimum Grade: C- OR T
AND

MATH-121 Minimum Grade: C- OR T

AND

PHYS-225 Minimum Grade: C- OR T

AND

PHYS-226 Minimum Grade: C- OR T

OR

PHYS-230 Minimum Grade: D OR T

AND

PHYS-231 Minimum Grade: D OR T

AND

PHYS-232 Minimum Grade: D OR T

AND

PHYS-233 Minimum Grade: D OR T

Co-requisite(s): CHEM 433

CHEM 433 - Physical Chemistry Laboratory

2 Credit(s)

The principles of physical chemistry applied in the laboratory.

Prerequisite(s):

CHEM 431 Minimum Grade: D OR T

Co-requisite(s): CHEM 431

CHEM 461 - Inorganic Chemistry

3 Credit(s)

Theoretical aspects of inorganic chemistry based upon periodic relationships, symmetry, structure bonding, and reactivities. Offered fall semesters of odd-numbered years.

Prerequisite(s):

CHEM-321 Minimum Grade: C- OR T

AND

CHEM-322 Minimum Grade: C- OR T

OR

CHEM-331 Minimum Grade: C- OR T

AND

CHEM-332 Minimum Grade: C- OR T

Co-requisite(s): CHEM-461L

CHEM 461L - Inorganic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-461. Practices of inorganic chemistry in the laboratory including synthesis and characterization of compounds.

Co-requisite(s): CHEM-461

OR

BIOL 476 - Molecular Biology

5 Credit(s)

An introduction to the study of nucleic acids, genomes and molecular mechanisms with emphasis on genome organization, gene expression, and the techniques used in the study of molecular biology. Laboratory exercises will include standard methodologies such as restriction mapping, cloning, hybridization, DNA libraries, and PCR. Course includes three hours of lecture and four hours of laboratory per week. Senior standing is recommended.

Prerequisite(s):

BIOL 448 Minimum Grade: C- OR T

OR

CHEM 401 Minimum Grade: C- OR T

CHEM 471 - Chemistry Seminar

1 Credit(s)

Capstone course intended for senior chemistry majors consisting of seminars presented by guest speakers, staff, and students; an assessment exam for seniors; and job placement information. Prerequisite: Completion of sufficient degree requirements to be within three semesters of graduating with a chemistry major.

CHEM 472 - Chemistry Seminar Continuation

1 Credit(s)

A continuation of CHEM 471.

Prerequisite(s):

CHEM 471 Minimum Grade: C- OR T

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 226 - College Physics II

5 Credit(s)

The second course of a two-semester lecture-laboratory sequence introducing the fundamental principles of physics. In the second semester, students will be introduced to the areas of electricity, electric circuits, optics, and topics in modern physics. Conceptual understanding as well as problem-solving techniques will be emphasized in the lecture. The laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture.

Prerequisite(s):

PHYS 225 Minimum Grade: C- OR T
OR

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

BIOL 321 - Genetics

3 Credit(s)

A study of Mendelian and molecular genetics of eukaryotes and prokaryotes. Discussions include basic Mendelian principles, meiosis/mitosis, linkage, gene expression, and molecular techniques. Course includes 3 hours of lecture and 1 hour of peer learning activities per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- **OR** T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

OR

CHEM-132 Minimum Grade: C- OR T

AND

CHEM-132L Minimum Grade: C- OR T

BIOL 323 - Cellular Biology

3 Credit(s)

The study of higher plant and animal cells and tissues at the biochemical level including: organelle structure, function, and metabolic role; cell growth, differentiation and specialization; and a survey of instrumentation and methodologies for investigating life processes at the biochemical level. Course includes three hours of lecture per week. Concurrent registration in BIOL 321 and BIOL 325 is recommended.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T

OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

BIOL 325 - Cellular Biology/Genetics Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with BIOL 321 and BIOL 323. Laboratory exercises in this course are designed to demonstrate, complement, and extend concepts considered in BIOL 321 and BIOL 323. Students will engage in exercises involving a variety of techniques in which data pertinent to both disciplines will be gathered and analyzed. Course includes 3 hours of laboratory per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T

OR

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

AND

CHEM 111L Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 131L Minimum Grade: C- OR T

Co-requisite(s): BIOL 321 BIOL 323

Bachelor of Science in Biology, Cellular and Molecular Biology Emphasis

Go to: Biology

Core Requirements

Completion of the following required courses:

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430
AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

BIOL 321 - Genetics

3 Credit(s)

A study of Mendelian and molecular genetics of eukaryotes and prokaryotes. Discussions include basic Mendelian principles, meiosis/mitosis, linkage, gene expression, and molecular techniques. Course includes 3 hours of lecture and 1 hour of peer learning activities per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

OR

CHEM-132 Minimum Grade: C- OR T

AND

CHEM-132L Minimum Grade: C- OR T

BIOL 323 - Cellular Biology

3 Credit(s)

The study of higher plant and animal cells and tissues at the biochemical level including: organelle structure, function, and metabolic role; cell growth, differentiation and specialization; and a survey of instrumentation and methodologies for investigating life processes at the biochemical level. Course includes three hours of lecture per week. Concurrent registration in BIOL 321 and BIOL 325 is recommended.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

BIOL 325 - Cellular Biology/Genetics Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with BIOL 321 and BIOL 323. Laboratory exercises in this course are designed to demonstrate, complement, and extend concepts considered in BIOL 321 and BIOL 323. Students will engage in exercises involving a variety of techniques in which data pertinent to both disciplines will be gathered and analyzed. Course includes 3 hours of laboratory per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T

OR

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

AND

CHEM 111L Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 131L Minimum Grade: C- OR T

Co-requisite(s): BIOL 321 BIOL 323

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

BIOL 332 - Evolution

3 Credit(s)

A study of the history and development of evolutionary theory. Consideration is given to evidence for and mechanisms of evolution from anatomical, developmental, geological, mathematical, and molecular perspectives. Credit or concurrent registration in BIOL 330 is recommended. This course includes 3 hours of lecture per week.

Prerequisite(s):

BIOL 209 Minimum Grade: C- OR T

AND

BIOL 210 Minimum Grade: C- OR T

BIOL 448 - Microbiology

4 Credit(s)

The study of bacteria, fungi, protozoans, and viruses with emphasis on their morphology, physiology, and medical and ecological interactions with human populations. Laboratory exercises are designed to provide experience in handling microorganisms, identification of bacteria, isolation of bacteriophages, and other basic principles of microbiology.

Course includes 3 hours of lecture and 3 hours of laboratory per week. Chemistry 321/321L and CHEM-322/322L are recommended.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 476 - Molecular Biology

5 Credit(s)

An introduction to the study of nucleic acids, genomes and molecular mechanisms with emphasis on genome organization, gene expression, and the techniques used in the study of molecular biology. Laboratory exercises will include standard methodologies such as restriction mapping, cloning, hybridization, DNA libraries, and PCR. Course includes three hours of lecture and four hours of laboratory per week. Senior standing is recommended.

Prerequisite(s):

BIOL 448 Minimum Grade: C- OR T
OR

CHEM 401 Minimum Grade: C- OR T

BIOL 477 - Genomics and Bioinformatics

4 Credit(s)

This course is designed to provide students with an in-depth understanding of comparative and functional genomics and practice using genomics and bioinformatics tools. Topics discussed include structure and anatomy of DNA elements, sequencing and other methods used in decoding DNA, genes, and entire genomes, gene expression profiling, gene annotation, homology, clusters of ortholog genes, protein structure function, high throughput functional assays, and experimental perturbation of genomes for medical purposes. Examples presented in the course illustrate the role of functional genomics in drug design, gene discovery, and in designing individual therapies for a variety of diseases and disorders. Laboratory exercises will give students experience in handling and interpreting biological data using various computational methods.

Prerequisite(s):

CHEM 401 Minimum Grade: C- OR T
AND

BIOL 476 Minimum Grade: C- OR T

BIOL 493 - Thesis I

1 Credit(s)

First in a series of two capstone courses for biology majors designed to review and synthesize their biological background. The emphasis is on writing an independent research paper, or formal literature review of a selected topic in biology. Emphasis is on writing as a process and effective peer review. Course includes 2 hours of lecture per week. A minimum of six credit hours of 400- level biology coursework with grades C or better, or permission of the biology department is required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T
AND

BIOL 325 Minimum Grade: C- OR T
AND

BIOL 330 Minimum Grade: C- OR T
AND

BIOL 332 Minimum Grade: C- OR T

BIOL 494 - Thesis II

1 Credit(s)

Second in a series of two capstone courses for biology designed to review and synthesize their biological background. The emphasis is on developing oral presentation skills. Students will prepare and deliver several short oral presentations as well as one formal seminar on a biological topic. Course includes two hours of lecture per week.

Prerequisite(s):

BIOL 493 Minimum Grade: C- OR T

Plus a Minimum of Seven Credits from the Following

BIOL 407 - Comparative Animal Physiology

4 Credit(s)

A lecture and laboratory course in which physiological principles common to all major animal phyla are discussed. Consideration of function ranges from biochemical to organismal levels and the comparative method is emphasized in the examination of physiological adaptations required to live in a variety of environments. Course includes 3 hours of lecture and 3 hours of laboratory per week and is offered during fall term of even-numbered years. Biochemistry (CHEM-401 and 402) and senior standing are recommended.

Prerequisite(s):

BIOL-321 Minimum Grade: C- OR T

AND

BIOL-323 Minimum Grade: C- OR T

AND

BIOL-325 Minimum Grade: C- OR T

AND

BIOL-330 Minimum Grade: C- OR T

AND

BIOL-332 Minimum Grade: C- OR T

AND

CHEM-321 Minimum Grade: C- OR T

AND

CHEM-321L Minimum Grade: C- OR T

AND

CHEM-322 Minimum Grade: C- OR T

AND

CHEM-322L Minimum Grade: C- OR T

BIOL 408 - Developmental Biology

4 Credit(s)

A lecture and laboratory exploration of the principles of cellular differentiation, morphogenesis, and development with emphasis on underlying genetic mechanisms. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 411 - Comparative Anatomy

4 Credit(s)

An integrated lecture/laboratory investigation of the anatomy and functional morphology of the major groups of chordates and vertebrates with emphasis on the comparative method, anatomical changes through evolutionary history, and inferential reconstruction of phyletic evolutionary descent. Course includes 3 hours of lecture and 3 hours of laboratory per week and is offered during fall term of odd-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 450 - Immunology

3 Credit(s)

Introduction to the cellular and molecular participants in the immune response. Discussion of the relationship between immune mechanisms and medical problems such as allergy, AIDS, malignancy, infection, and organ transplantation. Course includes 3 hours of lecture per week. Course is offered during spring term of even numbered years.

Prerequisite(s):

BIOL 448 Minimum Grade: C- OR T

BIOL 451 - Endocrinology

3 Credit(s)

The study of the production, regulation, and function of classical hormones and paracrine regulatory molecules. Emphasis will be placed on human endocrinology, but the material will also include discussions of the evolution of hormone families and comparisons between species. Class activities will include histological study of endocrine tissue, videos of hormonal action, analysis of experiments in journal articles and discussions of medical case histories. Course includes 3 hours of lecture per week and is offered during the fall term of even-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

Completion of Required Support Courses

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

CHEM 321 - Organic Chemistry

4 Credit(s)

A study of the relationship between structure and reactivity of carbon-containing compounds.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 321L

CHEM 321L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 321. Laboratory time will be divided among techniques, preparation, and mechanistic studies.

Co-requisite(s): CHEM 321

CHEM 322 - Organic Chemistry

4 Credit(s)

A continuation of CHEM 321.

Prerequisite(s):

CHEM 321 Minimum Grade: C- OR T

Co-requisite(s): CHEM 322L

CHEM 322L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-322. Laboratory time will be divided among mechanistic studies, preparation, introductory qualitative analysis, and independent project work.

Co-requisite(s): CHEM-322

CHEM 401 - Biochemistry

3 Credit(s)

A study of structural biochemistry. Course begins with a review of water, the lipophilic environment, noncovalent bonding, and bioenergetics. Topics include amino acids, peptides, proteins, nucleic acids, carbohydrates, and lipids. Enzymes are discussed with emphasis on mechanism and kinetics.

Prerequisite(s):

CHEM 322 Minimum Grade: C- OR T

Co-requisite(s): CHEM 401L

CHEM 401L - Biochemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-401. Laboratory time will be spent learning protein purification techniques and doing independent project work.

Co-requisite(s): CHEM-401

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 226 - College Physics II

5 Credit(s)

The second course of a two-semester lecture-laboratory sequence introducing the fundamental principles of physics. In the second semester, students will be introduced to the areas of electricity, electric circuits, optics, and topics in modern physics. Conceptual understanding as well as problem-solving techniques will be emphasized in the lecture. The laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture.

Prerequisite(s):

PHYS 225 Minimum Grade: C- OR T

Bachelor of Science in Biology, Integrative Biology Emphasis

Go to: [Biology](#)

Core Requirements

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

BIOL 321 - Genetics

3 Credit(s)

A study of Mendelian and molecular genetics of eukaryotes and prokaryotes. Discussions include basic Mendelian principles, meiosis/mitosis, linkage, gene expression, and molecular techniques. Course includes 3 hours of lecture and 1 hour of peer learning activities per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- **OR** T
OR

BIOL-210 Minimum Grade: C- **OR** T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

OR

CHEM-132 Minimum Grade: C- OR T

AND

CHEM-132L Minimum Grade: C- OR T

BIOL 323 - Cellular Biology

3 Credit(s)

The study of higher plant and animal cells and tissues at the biochemical level including: organelle structure, function, and metabolic role; cell growth, differentiation and specialization; and a survey of instrumentation and methodologies for investigating life processes at the biochemical level. Course includes three hours of lecture per week. Concurrent registration in BIOL 321 and BIOL 325 is recommended.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T

OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

BIOL 325 - Cellular Biology/Genetics Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with BIOL 321 and BIOL 323. Laboratory exercises in this course are designed to demonstrate, complement, and extend concepts considered in BIOL 321 and BIOL 323. Students will engage in exercises involving a variety of techniques in which data pertinent to both disciplines will be gathered and analyzed. Course includes 3 hours of laboratory per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T

OR

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

AND

CHEM 111L Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 131L Minimum Grade: C- OR T

Co-requisite(s): BIOL 321 BIOL 323

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T
AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

BIOL 332 - Evolution

3 Credit(s)

A study of the history and development of evolutionary theory. Consideration is given to evidence for and mechanisms of evolution from anatomical, developmental, geological, mathematical, and molecular perspectives. Credit or concurrent registration in BIOL 330 is recommended. This course includes 3 hours of lecture per week.

Prerequisite(s):

BIOL 209 Minimum Grade: C- OR T
AND

BIOL 210 Minimum Grade: C- OR T

BIOL 425 - Statistics for Biological Sciences

3 Credit(s)

This course provides an introduction to the statistical methods used in the biological sciences. Topics covered include descriptive statistics, probability distributions, hypothesis testing, regression analysis, and analysis of variance. Students will learn how to apply these methods to real-world biological data using the statistical software program R.

Prerequisite(s):

Completion of all Intermediate Block Biology courses (BIOL 321, BIOL 323, BIOL 325, BIOL 330, BIOL 332) with a minimum grade of C- or T.

AND

Completion of MATH 205 with a minimum grade of C- or T.

Co-requisite(s): MATH 205 with instructor permission.

BIOL 493 - Thesis I

1 Credit(s)

First in a series of two capstone courses for biology majors designed to review and synthesize their biological background. The emphasis is on writing an independent research paper, or formal literature review of a selected topic in biology. Emphasis is on writing as a process and effective peer review. Course includes 2 hours of lecture per week. A minimum of six credit hours of 400- level biology coursework with grades C or better, or permission of the biology department is required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T
AND

BIOL 325 Minimum Grade: C- OR T
AND

BIOL 330 Minimum Grade: C- OR T
AND

BIOL 332 Minimum Grade: C- OR T

BIOL 494 - Thesis II

1 Credit(s)

Second in a series of two capstone courses for biology designed to review and synthesize their biological background. The emphasis is on developing oral presentation skills. Students will prepare and deliver several short oral presentations as well as one formal seminar on a biological topic. Course includes two hours of lecture per week.

Prerequisite(s):

BIOL 493 Minimum Grade: C- OR T

Plus 7 Courses Including a Minimum of 2 from each of the Following Sections (Sections A and B)

Section A.

BIOL 404 - Physiological Zoology

3 Credit(s)

Consideration of structural, functional, and behavioral aspects of physiological mechanisms within an ecological context. Adaptations of animals in response to common, changing, and/or extreme environmental stresses will be emphasized at both proximate and ultimate levels of inquiry. This course includes 3 hours of lecture per week and is offered during spring term of odd-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 417 - Vascular Plant Systematics

4 Credit(s)

A study of vascular plants (tracheophytes), including phylogeny, taxonomy, molecular systematics, reproduction, ecological relationships, identification, collection, and preservation. Course includes 3 hours of lecture and 3 hours of laboratory per week

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 420 - Mycology

4 Credit(s)

A study of the biology of fungi with emphasis on their identification, classification, morphology, development, ecology, and economic significance. Course includes three hours of lecture and three hours of laboratory per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 423 - Plant Physiology

4 Credit(s)

A study of the mechanisms of plant function throughout development from seeds through reproduction. This course includes consideration of metabolism (photosynthesis, respiration, mineral nutrition), water relations, gas exchange, and developmental growth in response to hormones. An integrated laboratory component requires an independently researched project. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 430 - Plant Ecology

4 Credit(s)

A study of the physiological mechanisms underlying plant responses to abiotic constraints. Topics will include the function of plants and plant communities in relation to soils, climate, other plants, animals, and human activity. Course includes 3 hours of lecture and 3 hours of laboratory/field exercises per week. BIOL 417 is recommended.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 440 - Invertebrate Zoology

4 Credit(s)

A survey of the major groups of invertebrate animals from the Protozoa through Chordata with emphasis on anatomy, ecology, evolution, physiology, and taxonomy. Relationships will be demonstrated through study of selected invertebrate types including marine, freshwater, and terrestrial species. Course includes 3 hours of lecture and 3 hours of laboratory per week and is offered during spring term of even-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 460 - Ornithology

3 Credit(s)

An integrated lecture and laboratory course covering the major taxonomic groups of birds, their ecology, evolutionary fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Lecture topics are supplemented with laboratory and field identification. Course includes three hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 461 - Entomology

3 Credit(s)

Biology of insects with emphasis on anatomy, physiology, natural history, evolution, life cycles, and identification of major groups. This course included two hours of lecture and two hours of lab per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 463 - Ichthyology

3 Credit(s)

An integrated lecture and laboratory course covering the major economic groups of fishes, their ecology, evolutionary relationships, fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Course includes three hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 464 - Mammalogy

3 Credit(s)

An integrated lecture and laboratory course covering the major taxonomic groups of mammals, their ecology, evolutionary relationships, fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Course includes 3 hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 471 - Herpetology

3 Credit(s)

An integrated lecture and laboratory course covering the major taxonomic groups of amphibians and reptiles, their ecology, evolutionary relationships, fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Course includes three hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

Section B.

BIOL 407 - Comparative Animal Physiology

4 Credit(s)

A lecture and laboratory course in which physiological principles common to all major animal phyla are discussed. Consideration of function ranges from biochemical to organismal levels and the comparative method is emphasized in the examination of physiological adaptations required to live in a variety of environments. Course includes 3 hours of lecture and 3 hours of laboratory per week and is offered during fall term of even-numbered years. Biochemistry (CHEM-401 and 402) and senior standing are recommended.

Prerequisite(s):

BIOL-321 Minimum Grade: C- OR T
AND

BIOL-323 Minimum Grade: C- OR T

AND

BIOL-325 Minimum Grade: C- OR T

AND

BIOL-330 Minimum Grade: C- OR T

AND

BIOL-332 Minimum Grade: C- OR T

AND

CHEM-321 Minimum Grade: C- OR T

AND

CHEM-321L Minimum Grade: C- OR T

AND

CHEM-322 Minimum Grade: C- OR T

AND

CHEM-322L Minimum Grade: C- OR T

BIOL 408 - Developmental Biology

4 Credit(s)

A lecture and laboratory exploration of the principles of cellular differentiation, morphogenesis, and development with

emphasis on underlying genetic mechanisms. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 411 - Comparative Anatomy

4 Credit(s)

An integrated lecture/laboratory investigation of the anatomy and functional morphology of the major groups of chordates and vertebrates with emphasis on the comparative method, anatomical changes through evolutionary history, and inferential reconstruction of phyletic evolutionary descent. Course includes 3 hours of lecture and 3 hours of laboratory per week and is offered during fall term of odd-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 448 - Microbiology

4 Credit(s)

The study of bacteria, fungi, protozoans, and viruses with emphasis on their morphology, physiology, and medical and ecological interactions with human populations. Laboratory exercises are designed to provide experience in handling microorganisms, identification of bacteria, isolation of bacteriophages, and other basic principles of microbiology. Course includes 3 hours of lecture and 3 hours of laboratory per week. Chemistry 321/321L and CHEM-322/322L are

recommended.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 450 - Immunology

3 Credit(s)

Introduction to the cellular and molecular participants in the immune response. Discussion of the relationship between immune mechanisms and medical problems such as allergy, AIDS, malignancy, infection, and organ transplantation. Course includes 3 hours of lecture per week. Course is offered during spring term of even numbered years.

Prerequisite(s):

BIOL 448 Minimum Grade: C- OR T

BIOL 451 - Endocrinology

3 Credit(s)

The study of the production, regulation, and function of classical hormones and paracrine regulatory molecules. Emphasis will be placed on human endocrinology, but the material will also include discussions of the evolution of hormone families and comparisons between species. Class activities will include histological study of endocrine tissue, videos of hormonal action, analysis of experiments in journal articles and discussions of medical case histories. Course includes 3 hours of lecture per week and is offered during the fall term of even-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 466 - Environmental Toxicology

3.0 Credit(s)

This course provides an overview of the interdisciplinary field of environmental toxicology, including introductions to environmental chemistry, biological mechanisms of toxicity, regulatory structures for managing toxic exposures, and social dimensions of pollution. Impacts to both human and wildlife health will be discussed. Many of the concepts covered have direct relevance to pharmacology, medicine, and wildlife management. The format of the course is a mixture of lectures and discussion activities. Examples from the primary literature are used for discussion. The course culminates with an independent research project on an environmental toxicology topic of the student's choosing.

Prerequisite(s):

Completion of all Intermediate Block Biology courses (BIOL 321, BIOL 323, BIOL 325, BIOL 330, BIOL 332) with a minimum grade of C- or T.

BIOL 476 - Molecular Biology

5 Credit(s)

An introduction to the study of nucleic acids, genomes and molecular mechanisms with emphasis on genome organization, gene expression, and the techniques used in the study of molecular biology. Laboratory exercises will include standard methodologies such as restriction mapping, cloning, hybridization, DNA libraries, and PCR. Course includes three hours of lecture and four hours of laboratory per week. Senior standing is recommended.

Prerequisite(s):

BIOL 448 Minimum Grade: C- OR T

OR

CHEM 401 Minimum Grade: C- OR T

BIOL 477 - Genomics and Bioinformatics

4 Credit(s)

This course is designed to provide students with an in-depth understanding of comparative and functional genomics and practice using genomics and bioinformatics tools. Topics discussed include structure and anatomy of DNA elements, sequencing and other methods used in decoding DNA, genes, and entire genomes, gene expression profiling, gene annotation, homology, clusters of ortholog genes, protein structure function, high throughput functional assays, and experimental perturbation of genomes for medical purposes. Examples presented in the course illustrate the role of functional genomics in drug design, gene discovery, and in designing individual therapies for a variety of diseases and disorders. Laboratory exercises will give students experience in handling and interpreting biological data using various computational methods.

Prerequisite(s):

CHEM 401 Minimum Grade: C- OR T

AND

BIOL 476 Minimum Grade: C- OR T

CHEM 401 - Biochemistry

3 Credit(s)

A study of structural biochemistry. Course begins with a review of water, the lipophilic environment, noncovalent bonding, and bioenergetics. Topics include amino acids, peptides, proteins, nucleic acids, carbohydrates, and lipids. Enzymes are discussed with emphasis on mechanism and kinetics.

Prerequisite(s):

CHEM 322 Minimum Grade: C- OR T

Co-requisite(s): CHEM 401L

Completion of required support courses

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

CHEM 321 - Organic Chemistry

4 Credit(s)

A study of the relationship between structure and reactivity of carbon-containing compounds.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 321L

CHEM 321L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 321. Laboratory time will be divided among techniques, preparation, and mechanistic studies.

Co-requisite(s): CHEM 321

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

Bachelor of Science in Biology, Wildlife Emphasis

Go to: [Biology](#)

Core Requirements

Completion of the following required courses:

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score:

18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- OR BIOL-209 Minimum Grade: T OR BIOL-209 Minimum Grade: C- AND (CHEM-131 Minimum Grade: C- OR CHEM-131 Minimum Grade: T) OR (CHEM-111 Minimum Grade: C- OR CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

BIOL 321 - Genetics

3 Credit(s)

A study of Mendelian and molecular genetics of eukaryotes and prokaryotes. Discussions include basic Mendelian principles, meiosis/mitosis, linkage, gene expression, and molecular techniques. Course includes 3 hours of lecture and 1 hour of peer learning activities per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

OR

CHEM-132 Minimum Grade: C- OR T

AND

CHEM-132L Minimum Grade: C- OR T

BIOL 323 - Cellular Biology

3 Credit(s)

The study of higher plant and animal cells and tissues at the biochemical level including: organelle structure, function, and metabolic role; cell growth, differentiation and specialization; and a survey of instrumentation and methodologies for investigating life processes at the biochemical level. Course includes three hours of lecture per week. Concurrent registration in BIOL 321 and BIOL 325 is recommended.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

BIOL 325 - Cellular Biology/Genetics Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with BIOL 321 and BIOL 323. Laboratory exercises in this course are designed to demonstrate, complement, and extend concepts considered in BIOL 321 and BIOL 323. Students will engage in exercises involving a variety of techniques in which data pertinent to both disciplines will be gathered and analyzed. Course includes 3 hours of laboratory per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

AND

CHEM 111L Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 131L Minimum Grade: C- OR T

Co-requisite(s): BIOL 321 BIOL 323

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T
AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

BIOL 332 - Evolution

3 Credit(s)

A study of the history and development of evolutionary theory. Consideration is given to evidence for and mechanisms of evolution from anatomical, developmental, geological, mathematical, and molecular perspectives. Credit or concurrent registration in BIOL 330 is recommended. This course includes 3 hours of lecture per week.

Prerequisite(s):

BIOL 209 Minimum Grade: C- OR T
AND

BIOL 210 Minimum Grade: C- OR T

BIOL 493 - Thesis I

1 Credit(s)

First in a series of two capstone courses for biology majors designed to review and synthesize their biological background. The emphasis is on writing an independent research paper, or formal literature review of a selected topic in biology. Emphasis is on writing as a process and effective peer review. Course includes 2 hours of lecture per week. A minimum of six credit hours of 400- level biology coursework with grades C or better, or permission of the biology department is required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 494 - Thesis II

1 Credit(s)

Second in a series of two capstone courses for biology designed to review and synthesize their biological background. The emphasis is on developing oral presentation skills. Students will prepare and deliver several short oral presentations as well as one formal seminar on a biological topic. Course includes two hours of lecture per week.

Prerequisite(s):

BIOL 493 Minimum Grade: C- OR T

Plus a Minimum of 6 Credits from the Following

BIOL 467 - Wildlife Management

3 Credit(s)

Study of the ecological foundation, historical development, techniques, and current perspectives and challenges in wildlife management. Emphasis will be on the application of scientific management of game and non-game animals, their habitats, and managing human use of wildlife. Course includes three hours of lecture per week and is offered during fall term of even-numbered years. MATH 205 is recommended.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

OR

BIOL 330 Minimum Grade: C- OR T

AND

GSCI 212 Minimum Grade: C- OR T OR

BIOL 468 - Vegetation/Habitat Management

3 Credit(s)

A study of the composition, structure and productivity of vegetation with emphasis on ecological applications in creating and managing wildlife habitat.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

OR

BIOL 330 Minimum Grade: C- OR T

AND

GEOG 212 Minimum Grade: C- OR T

BIOL 469 - Fisheries Management

3 Credit(s)

A study of the ecological foundation, historical development, techniques, and current perspectives and challenges in inland fisheries management. Emphasis will be on the application of scientific management of fishes, their habitats, and managing human use of inland fisheries. Fisheries Management does not include a separate laboratory section, but will include various field trips to give students the opportunity to observe and apply management techniques discussed in class.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

GSCI 212 - Natural Resource Management on Public Lands

3 Credit(s)

This course will examine public lands management from both a theoretical and descriptive perspective. The major political forces affecting public lands, and the specific details of energy policy, forests, rangelands, national parks, and wildlife on public lands are discussed.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

OR

BIOL 330 Minimum Grade: C-

Plus a Minimum of 2 Courses from Each of the Following Sections (Sections A, B & C)

A.

BIOL 460 - Ornithology

3 Credit(s)

An integrated lecture and laboratory course covering the major taxonomic groups of birds, their ecology, evolutionary fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Lecture topics are supplemented with laboratory and field identification. Course includes three hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 461 - Entomology

3 Credit(s)

Biology of insects with emphasis on anatomy, physiology, natural history, evolution, life cycles, and identification of major groups. This course included two hours of lecture and two hours of lab per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 463 - Ichthyology

3 Credit(s)

An integrated lecture and laboratory course covering the major economic groups of fishes, their ecology, evolutionary relationships, fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Course includes three hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 464 - Mammalogy

3 Credit(s)

An integrated lecture and laboratory course covering the major taxonomic groups of mammals, their ecology, evolutionary relationships, fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Course includes 3 hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 471 - Herpetology

3 Credit(s)

An integrated lecture and laboratory course covering the major taxonomic groups of amphibians and reptiles, their ecology, evolutionary relationships, fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Course includes three hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T
AND

BIOL 325 Minimum Grade: C- OR T
AND

BIOL 330 Minimum Grade: C- OR T
AND

BIOL 332 Minimum Grade: C- OR T

B.

BIOL 314 - Conservation Biology

3 Credit(s)

Conservation biology is the study of how to preserve the world's biological and genetic diversity while maintaining functional ecosystems. The course will explore these issues using an integrated approach with emphasis on identifying ways that wildlife and humans can sustainably coexist.

Prerequisite(s):

BIOL 330 Minimum Grade: C- OR T
OR

GSCI 307 Minimum Grade: C- OR T

BIOL 404 - Physiological Zoology

3 Credit(s)

Consideration of structural, functional, and behavioral aspects of physiological mechanisms within an ecological context. Adaptations of animals in response to common, changing, and/or extreme environmental stresses will be emphasized at both proximate and ultimate levels of inquiry. This course includes 3 hours of lecture per week and is offered during spring term of odd-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 411 - Comparative Anatomy

4 Credit(s)

An integrated lecture/laboratory investigation of the anatomy and functional morphology of the major groups of chordates and vertebrates with emphasis on the comparative method, anatomical changes through evolutionary history, and inferential reconstruction of phyletic evolutionary descent. Course includes 3 hours of lecture and 3 hours of laboratory per week and is offered during fall term of odd-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 423 - Plant Physiology

4 Credit(s)

A study of the mechanisms of plant function throughout development from seeds through reproduction. This course includes consideration of metabolism (photosynthesis, respiration, mineral nutrition), water relations, gas exchange, and developmental growth in response to hormones. An integrated laboratory component requires an independently researched project. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 440 - Invertebrate Zoology

4 Credit(s)

A survey of the major groups of invertebrate animals from the Protozoa through Chordata with emphasis on anatomy, ecology, evolution, physiology, and taxonomy. Relationships will be demonstrated through study of selected invertebrate types including marine, freshwater, and terrestrial species. Course includes 3 hours of lecture and 3 hours of laboratory per week and is offered during spring term of even-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

C.

Nine hours of plant-related courses are required for positions with the Federal Government

BIOL 417 - Vascular Plant Systematics

4 Credit(s)

A study of vascular plants (tracheophytes), including phylogeny, taxonomy, molecular systematics, reproduction,

ecological relationships, identification, collection, and preservation. Course includes 3 hours of lecture and 3 hours of laboratory per week

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 420 - Mycology

4 Credit(s)

A study of the biology of fungi with emphasis on their identification, classification, morphology, development, ecology, and economic significance. Course includes three hours of lecture and three hours of laboratory per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 430 - Plant Ecology

4 Credit(s)

A study of the physiological mechanisms underlying plant responses to abiotic constraints. Topics will include the function of plants and plant communities in relation to soils, climate, other plants, animals, and human activity. Course includes 3 hours of lecture and 3 hours of laboratory/field exercises per week. BIOL 417 is recommended.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T
AND

BIOL 325 Minimum Grade: C- OR T
AND

BIOL 330 Minimum Grade: C- OR T
AND

BIOL 332 Minimum Grade: C- OR T

Required Support Courses

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460
OR

MATH 97 Minimum Grade: S-A or S-B
OR

MATH 97 Minimum Grade: S-C or S
OR

MATH 99 Minimum Grade: S or S-A
OR

MATH 99 Minimum Grade: S-B or S-C or T
OR

MATH 104 Minimum Grade: C- or T
OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 112 - Introduction to Organic/Biological Chemistry

4 Credit(s)

A study of the fundamental concepts of organic chemistry and biochemistry. Will not satisfy requirements for a chemistry major, minor or pre-professional studies (pre-med etc.) The course is satisfactory for biology majors who take only one year of chemistry, and for HPPE advanced track.

Prerequisite(s):

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 112L

CHEM 112L - Introduction to Organic/Biological Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 112.

Co-requisite(s): CHEM 112

GSCI 201 - Introduction to Cartography and GIS

3 Credit(s)

This course will introduce students to the core concepts of Geographic Information Systems (GIS) and the importance and relevance of GIS in today's world. Students will learn what GIS is, what it is used for, and how to perform basic and core tasks involving GIS analysis. An objective is to help students develop the ability to think critically about cartographic processes and representations as well as develop their skills in creating maps. Students are expected to have basic computer proficiency prior to enrolling in this course.

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T

OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

Bachelor of Science in Business Administration, Accounting Emphasis

Go to: Business

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Accounting Emphasis

BUS 305 - Intermediate Accounting I

4 Credit(s)

The first of a two-course sequence of Intermediate Accounting designed to develop a framework for the role financial accounting plays in the world of business. A study of the conceptual basis of accounting will be conducted, creating a more in-depth understanding of the preparation and interpretation of financial statements and related information. This course will focus on the study of modern-day accounting theory and application of generally accepted accounting principles to various topics and financial statement elements. Students will be introduced to the U.S. Accounting Standards Codification and basic research tools.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 306 - Intermediate Accounting II

4 Credit(s)

The second of a two-course sequence of Intermediate Accounting designed to develop a framework for the role financial accounting plays in the world of business. A study of the conceptual basis of accounting will be conducted,

creating a more in-depth understanding of the preparation and interpretation of financial statements and related information. This course will focus on the study of modern-day accounting theory and application of generally accepted accounting principles to various topics and financial statement elements. Students will continue their use of the U.S. Accounting Standards Codification as a research tools.

Prerequisite(s):

BUS 305 Minimum Grade: C- OR T

BUS 307 - Managerial Cost Accounting I

3 Credit(s)

Principles and methods of recording and interpreting cost data. Major emphasis on developing accounting information for planning, control, and decision making.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 355 - Individual Income Taxation

4 Credit(s)

This course involves the study of federal income tax on individual and property transactions. Objectives of taxation are given major emphasis. The Internal Revenue Code is discussed in addition to textbook material in order to acquaint the student with the ultimate source of tax law. Income tax return problems and tax cases may be assigned to provide practical application of the tax law.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 360 - Government and Institution Accounting

3 Credit(s)

Study of accounting procedures related to governmental units and nonprofit institutions.

Prerequisite(s):

BUS 305 Minimum Grade: C- OR T

BUS 405 - Advanced Accounting

4 Credit(s)

BUS-405 involves preparation and study of the need for consolidated financial statements. Additionally, it examines accounting problems associated with partnerships and foreign currency transactions.

Prerequisite(s):

BUS 306 Minimum Grade: C- OR T

BUS 407 - Auditing I

3 Credit(s)

Study of ethical standards, auditing standards, audit procedures, and evolution of internal control to learn how financial statements are examined and audit reports prepared in accordance with Generally Accepted Auditing Standards.

Prerequisite(s):

BUS 305 Minimum Grade: C- OR T
AND

BUS 306 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 409 - Fraud Examination

3 Credit(s)

This class will explain how occupational fraud is committed, how fraudulent conduct can be deterred and how allegations of fraud should be investigated and resolved.

Prerequisite(s):

BUS 305 Minimum Grade: C- OR T

BUS 455 - Entity Taxation

4 Credit(s)

Business 455 concentrates on the federal income tax consequences of the formation, normal operation, and the dissolution of corporations, partnerships, and fiduciaries. Other taxation problems of special interest may be covered.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

Electives

BUS 308 - Managerial Cost Accounting II

3 Credit(s)

Principles and methods of recording and interpreting cost data. Major emphasis on developing accounting information for planning, control, and decision making.

Prerequisite(s):

BUS 307 Minimum Grade: C- OR T

BUS 358 - Accounting Ethics

3 Credit(s)

Ethics as it applies to the accounting and auditing professions and will be the focus of this course. Emphasis will be on

the concept of independence, along with integrity, objectivity, ethical reasoning, and other core values necessary for a high level of professional ethics in the accounting profession.

Prerequisite(s):

BUS 306 Minimum Grade: C- OR T

BUS 371 - Payroll Accounting and Taxation

3 Credit(s)

This course is devoted to the principles of payroll computations and administration including creation and maintenance of payroll records as well as proper payroll tax depositing and reporting.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 377 - Agricultural Taxation

3 Credit(s)

This course is devoted to specific income tax laws associated with agricultural business to include farmers and ranchers both as individuals and as part of taxable entities.

Prerequisite(s):

BUS 355 Minimum Grade: C- OR T

BUS 465 - Estate, Gift, and Fiduciary Tax Law

3 Credit(s)

This course will address the fundamentals of Estate, Gift, and Fiduciary tax law. Topics will include Federal Gift Tax, death transfer tax laws, and fundamentals and reporting returns for estates.

Prerequisite(s):

BUS 455 Minimum Grade: C- OR T

Bachelor of Science in Business Administration, Agribusiness Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

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3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Agribusiness Emphasis

BUS 105 - Introduction to Agribusiness

3 Credit(s)

An introductory course designed to provide students with a basic background in agribusiness issues and practices to give them the foundation to be successful in upper level agribusiness courses and meet expectations for basic knowledge in agribusiness relationships.

BUS 364 - Agribusiness Management

3 Credit(s)

Management issues of agricultural businesses such as the forms of ownership, financial statements, analysis, and planning, investment analysis, strategic marketing, management of organizations, and human resources management.

Prerequisite(s):

BUS 105 Minimum Grade: C- OR T

AND

BUS 207 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

BUS 378 - Commodities/Risk Management

3 Credit(s)

The goal of this course is to provide students with knowledge of risk management for agricultural endeavors as well as practical knowledge of how the futures and options markets work, how to manage risk involved in agriculture production or operation, and various tools available to manage specific situations. BUS 103 Introduction to Business or instructor consent. BUS 105 Introduction to Agribusiness or instructor consent. BUS 318 Principles of Management or instructor consent.

Prerequisite(s):

BUS 103 Minimum Grade: D OR T

AND

BUS 105 Minimum Grade: D OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 384 - Natural Resources/Water Law

3 Credit(s)

The goal of this course is to provide students with knowledge of the regulatory responsibilities related to agriculture production and operations with respect to natural resources and water. The course will cover federal, state, and local requirements as well as application to agribusiness endeavors.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 211 Minimum Grade: C- OR T

BUS 398 - Farm and Ranch Management

3 Credit(s)

The application of economic and business principles to the management and operation of farms and ranches for decision making purposes.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 207 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

BUS 478 - Agricultural Marketing

3 Credit(s)

An overview of current marketing methods used for agricultural products and services, including value added marketing.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 488 - Agricultural Policy and Farm Bill

3 Credit(s)

Development and implementation of public policy in agriculture, implications of international competition and trade, and development and interpretation of argument in policy development.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

BUS 498 - World Food Distribution/Agricultural Economics

3 Credit(s)

Knowledge and application of economic concepts to the sectors of agriculture including microeconomic and macroeconomic relationships, world markets, and trade.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Plus 12 Upper-level Business Credits as Approved by Advisor

Bachelor of Science in Business Administration, Banking and Finance Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Finance Emphasis (21 credits from the following)

BUS 367 - Financial Analysis

3 Credit(s)

Examination of techniques for analyzing, understanding, and applying financial information in decision situations. Topics start with financial statement analysis, development of financial models, financial forecasting, cost of capital estimation, and ends with company valuation. In addition, there will be a "hands on" project to provide students with experience in analyzing and understanding a corporate annual report using EXCEL spread sheet analysis.

Prerequisite(s):

BUS 320 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

BUS 368 - Financial Institutions

3 Credit(s)

The course focuses on managing return and risk in modern financial institutions. It examines the financial services industry risk of financial intermediation, measurement of interest rate risk, credit and market risk, individual loan and liquidity risks, as well as off-balance sheet and sovereign risks. The course covers management of assets and liabilities, capital adequacy and depository insurance. Futures, forwards, options, caps, floors, collars, swaps and securitization will be also covered.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 373 - Investment Analysis

3 Credit(s)

BUS 318 recommended. The course is a study of personal investment planning, traditional and alternative investment vehicles, investment media, investment strategy, and portfolio analysis. The student will become familiar with both money market and capital investment markets as well as strategies for assessing returns and risks of various security instruments.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T
AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

BUS 383 - International Financial Management

3 Credit(s)

A comprehensive study of international financial markets that covers currency exchange mechanisms in theory and practice. In line with the rapid globalization of the economy, the goal of this course is to analyze the international financial environment and how managers function in this increasingly uncertain global environment. The course will focus on three main areas of international finance: international financial environment, exchange rate behavior, and exchange risk management.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 414 - Commercial Banking

3 Credit(s)

Bank Management is an in-depth study of banking institutions, with special emphasis on commercial banks and their connection to the Federal Reserve System and other financial institutions. A risk management perspective is adopted, and the fast changing global regulatory and financial environments are discussed. A Uniform Bank Performance Report will be analyzed.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 416 - Business Financial Problems

3 Credit(s)

Emphasis on financial decision-making within the firm using case studies as the primary activity. Topics include

financial goals and strategy, financial analysis and forecasting, capital budgeting, capital structure decisions, dividend policy, and firm valuation.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 426 - Money and Capital Markets

3 Credit(s)

Discussion of how financial markets are organized, their role in the allocation of funds to various market segments, and the interaction between financial markets. Topics include aggregate flow of funds analysis, an overview of financial markets, securities markets (money, bond, mortgage, stock, foreign exchange, derivative securities), as well as commercial banks, insurance and securities companies, mutual and pension funds markets. This course also covers financial markets risks and regulations.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 431 - Tech Analysis of Stock Trends

3 Credit(s)

Advanced studies in technical market analysis and trading, money management, investor psychology and analysis elements are considered. The Focus will be on the study of price action in trading markets, patterns and trends, price behavior of financial securities, trading tactics, and construction of a trading or investment model. The course will help students prepare for the Chartered Market Technician (CMT) designation.

Prerequisite(s):

BUS 373 Minimum Grade: C- OR T

BUS 432 - Series 7 General Securities Exam Review

3 Credit(s)

The Series 7 License Exam Review course is designed to prepare the student to take the National Association of Securities Dealers General Securities Representative Exam. After passing the Series 7 License exam the candidate can be licensed to sell various types of securities.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

AND

BUS 373 Minimum Grade: C- OR T

Plus 6 Credits of any Business or Economics Courses

Bachelor of Science in Business Administration, Economics Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Economics Emphasis

ECON 360 - Natural Resource Economics

3 Credit(s)

This course studies the usage of natural resources in the economy, the value of natural resources to society, and the allocation of renewable and nonrenewable resources. The course introduces economic theories for efficient management of natural resources and considers sustainability, conservation, and preservation. The course will consider resources, such as water, on a local scale as well as a global scale.

ECON 365 - Political Economy

3 Credit(s)

This course offers a critical introduction to the central ideas used by Political Economists to understand the structure, social meaning, and historical development of capitalist economies. Lectures draw on competing traditions in Political Economy to provide a critical appreciation of the defining socio-economic relationships of capitalism, including wages, productivity, profits, inequality, prices, entrepreneurship, markets, capitalism, growth, crises, recessions, socialism, etc. While these discussions necessarily involve economic theory, the overall emphasis is on how an analytically diverse understanding of these relationships can open up unique, critical perspectives into the problems of contemporary capitalism.

ECON 370 - Economics of Crises

3 Credit(s)

This course studies the nature of economic crises in capitalism. The course will explore theories of crises such as supply-side, demand-side, and financial crises. We will analyze the social consequences of crises as well as the policies implemented.

ECON 425 - Economic Policy

3 Credit(s)

Study of the structure and functions of the U.S. economic system and the use of monetary, fiscal, and other policies to stabilize the economy. Emphasis on historical roots and the evolution into new behavioral economic ideas as well as the complex interplay of policy and economic forces.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

ECON 433 - Managerial Economics

3 Credit(s)

Application and integration of microeconomic theory and the tools of decision science to managerial decision-making. Particular emphasis placed on the economic differences caused by monopolies, cartels, and multi-national organizations and their domination of many industries. Understanding of game theory and new economic analysis tools.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

HCA 455 - Health Care Economics

3 Credit(s)

This course will examine health care decision-making and the functioning of health care markets in the U.S. The course is not designed as a pure economics theory course but instead emphasizes how you can frame and analyze various health issues using the principles of economics. By doing so, you will gain a powerful new perspective that will help you understand the decisions made by individuals and organizations in the face of scarce resources. Instructor permission.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

BUS 498 - World Food Distribution/Agricultural Economics

3 Credit(s)

Knowledge and application of economic concepts to the sectors of agriculture including microeconomic and macroeconomic relationships, world markets, and trade.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

A Minimum of 12 Credits from the Following

BUS 307 - Managerial Cost Accounting I

3 Credit(s)

Principles and methods of recording and interpreting cost data. Major emphasis on developing accounting information for planning, control, and decision making.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 320 - Bus Computer Applications II

3 Credit(s)

The focus of this course is to explore application software on a comprehensive level to gain expertise to support decision-making and manage information. Study includes intermediate Word and Excel applications; intermediate to advanced PowerPoint; intermediate Access, integration of Office applications, and an introduction to HTML and building web pages.

Prerequisite(s):

BUS 120 Minimum Grade: C- OR T

BUS 355 - Individual Income Taxation

4 Credit(s)

This course involves the study of federal income tax on individual and property transactions. Objectives of taxation are given major emphasis. The Internal Revenue Code is discussed in addition to textbook material in order to acquaint the student with the ultimate source of tax law. Income tax return problems and tax cases may be assigned to provide practical application of the tax law.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 373 - Investment Analysis

3 Credit(s)

BUS 318 recommended. The course is a study of personal investment planning, traditional and alternative investment vehicles, investment media, investment strategy, and portfolio analysis. The student will become familiar with both money market and capital investment markets as well as strategies for assessing returns and risks of various security instruments.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

BUS 378 - Commodities/Risk Management

3 Credit(s)

The goal of this course is to provide students with knowledge of risk management for agricultural endeavors as well as practical knowledge of how the futures and options markets work, how to manage risk involved in agriculture production or operation, and various tools available to manage specific situations. BUS 103 Introduction to Business or instructor consent. BUS 105 Introduction to Agribusiness or instructor consent. BUS 318 Principles of Management or instructor consent.

Prerequisite(s):

BUS 103 Minimum Grade: D OR T

AND

BUS 105 Minimum Grade: D OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 383 - International Financial Management

3 Credit(s)

A comprehensive study of international financial markets that covers currency exchange mechanisms in theory and practice. In line with the rapid globalization of the economy, the goal of this course is to analyze the international financial environment and how managers function in this increasingly uncertain global environment. The course will focus on three main areas of international finance: international financial environment, exchange rate behavior, and exchange risk management.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 414 - Commercial Banking

3 Credit(s)

Bank Management is an in-depth study of banking institutions, with special emphasis on commercial banks and their connection to the Federal Reserve System and other financial institutions. A risk management perspective is adopted, and the fast changing global regulatory and financial environments are discussed. A Uniform Bank Performance Report will be analyzed.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 416 - Business Financial Problems

3 Credit(s)

Emphasis on financial decision-making within the firm using case studies as the primary activity. Topics include financial goals and strategy, financial analysis and forecasting, capital budgeting, capital structure decisions, dividend policy, and firm valuation.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 466 - Business Ethics Decision Making

3 Credit(s)

This course explores various ethical issues facing business leaders in modern society. Students will utilize current issues to analyze ethical dilemmas and decision-making processes common to modern organizations. Emphasizes critical thinking, critical reading, and the importance of professional ethics.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

Bachelor of Science in Business Administration, Entrepreneurship Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Entrepreneurship Emphasis

BUS 315 - Sales and Sales Management

3 Credit(s)

This course is designed to introduce students to management techniques as they relate specifically to the marketing and sales area. Topics covered include: the selling process, compensation systems, motivation and leadership, time and territory management, sales forecasting, quotas, and evaluating the sales force.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 362 - Human Resource Management

3 Credit(s)

Analysis of techniques used to organize, motivate, and manage personnel in public or private organizations. Includes case studies and examines current literature and the current legal environment..

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

BUS 448 - Interactive/Social Media Marketing

3 Credit(s)

This course focuses on relationship marketing, interactive marketing, integration of consumer data, Internet marketing (E-commerce), media advertising, catalogs, mailing lists, telemarketing, and the use of direct marketing techniques to replace or enhance the traditional marketing methods of retail and direct sales.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 466 - Business Ethics Decision Making

3 Credit(s)

This course explores various ethical issues facing business leaders in modern society. Students will utilize current issues to analyze ethical dilemmas and decision-making processes common to modern organizations. Emphasizes critical thinking, critical reading, and the importance of professional ethics.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 467 - Creativity and Innovation

3 Credit(s)

Course objectives are to develop skills in generating new and original ideas, increase ability to convert ideas into action and success, and increase knowledge and skill in creative problem solving as applied to business scenarios.

Prerequisite(s):

BUS 361 Minimum Grade: C-

BUS 468 - New Business Venturing

3 Credit(s)

This course introduces students to starting and operating a business. Students will be exposed to how business interacts with government, financial institutions, and society. This course will examine and study the process, challenges, risks, and rewards of starting up a new business. The student will be equipped with tools required to start their own business.

Prerequisite(s):

BUS 365 Minimum Grade: C-

Plus 6 Credits of 300- to 400-level business or economics courses approved by the student's advisor

Bachelor of Science in Business Administration, General Business Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Plus 30 credits from 300- to 400-level business, economics, or health care administration courses

Bachelor of Science in Business Administration, Health Care Administration Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Health Care Administration Emphasis

HCA 303 - Trends and Issues in Health Care

3 Credit(s)

This course is an introductory Health Care Administration course and will expose the student to the industry and its significant elements and trends of the current health care environment.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

HCA 305 - Health Care Marketing

3 Credit(s)

This course involves an analysis, evaluation, and implementation of marketing strategies within health care and managed-care environments. Designed to develop skills in segmenting customer and medical markets, brand products and services, enhance a communication strategy to the consumer, and develop pricing approaches. Methods and models of marketing fundamentals will be introduced.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 311 - Health Care Law and Ethics

3 Credit(s)

This course presents an overview of the legal and ethical issues faced by health care consumers, practitioners, and administrators. The course will introduce students to the legal aspects of health care at the federal, state, and local levels. Topics covered will include criminal and civil claims against health care providers, corporate and individual liability, and legal and ethical decision-making, individual liability, and legal and ethical decision-making. HCA 361 Health Care Administration. Instructor permission.

Prerequisite(s):

BUS 211 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 312 - Health Care Med Terminology

3 Credit(s)

This course will focus on the components of medical terms and the methods for analysis of word definitions. The emphasis will be on learning to define, pronounce, and spell medical terms using prefixes, suffixes, roots, and combining forms related to the anatomy and physiology of the human body. The course will include an introduction to operative, diagnostic, therapeutic, and symptomatic terminology of all body systems.

HCA 325 - Health Care Informatics

3 Credit(s)

This course is a study of record keeping practices in the hospital and physician's office. Emphasis is placed in hospital and medical staff organization, patient record content, procedures in filing, numbering and retention of patient records, quantitative analysis, release of patient information, forms control and design, indexes and registers, reimbursement, regulatory and accrediting agencies, and alternate health care delivery systems. Instructor permission required.

Prerequisite(s):

BUS 120 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

BUS 362 - Human Resource Management

3 Credit(s)

Analysis of techniques used to organize, motivate, and manage personnel in public or private organizations. Includes case studies and examines current literature and the current legal environment..

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

HCA 363 - Health Care Finance

3 Credit(s)

This course is devoted to the practical aspects of finance in health care, an examination of current practices in financial management of health care organizations, and managerial applications to specific problems facing health care managers. The first part of the course will focus on an overview of health care finance, managerial accounting, and financial analysis. The second part will continue with managerial accounting and financial analysis and will concentrate on the various tools used in financial management. Emphasis is placed on unique issues and concerns that result from the regulatory framework of health care organizations. At the conclusion of this course, the student should be able to discuss the financial structure, market forces, controls and techniques used in the health care management field, be able to read and analyze financial statements and budgets and have the skill to interpret financial and operating performance.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

HCA 402 - Public and Population Health

3 Credit(s)

This course consists of an examination of epidemiological concepts and methods of studying the distribution and determinants of morbidity and mortality in human population. The knowledge and skills acquired should enable one to understand and critically review scientific literature dealing with epidemiology concepts and measures. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

HCA 455 - Health Care Economics

3 Credit(s)

This course will examine health care decision-making and the functioning of health care markets in the U.S. The course is not designed as a pure economics theory course but instead emphasizes how you can frame and analyze various health issues using the principles of economics. By doing so, you will gain a powerful new perspective that will help you understand the decisions made by individuals and organizations in the face of scarce resources. Instructor permission.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 462 - Quality Management in Health Care

3 Credit(s)

Quality is an important aspect of health care; indeed, for most people, it is the most important aspect. Quality is defined in the dictionary as "degree of excellence" or "superiority in kind." Quality of care must be part of both the process and outcome of health care whenever possible. The issue is how does the system develop mechanisms to assure such quality? This course serves as an introduction to the process of quality management in health care organizations. Principles of total quality in health care will be discussed. Differentiation between quality assurance and quality management will also be presented. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

HCA 480 - Health Care Policy

3 Credit(s)

This course is an introduction to health policy. It will focus on how U.S. health policy is developed and will provide students with a general understanding of the policy making process and debates related major U.S. health care legislations.

Prerequisite(s):

HCA 303 Minimum Grade: C- OR T
AND

HCA 305 Minimum Grade: C- OR T

AND

HCA 363 Minimum Grade: C- OR T

Bachelor of Science in Business Administration, Management Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Management Emphasis

BUS 362 - Human Resource Management

3 Credit(s)

Analysis of techniques used to organize, motivate, and manage personnel in public or private organizations. Includes case studies and examines current literature and the current legal environment..

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

BUS 401 - Organizational Behavior

3 Credit(s)

Participants in the course will explore the theory of human relations in organizations. The emphasis will be on the application of behavioral science knowledge to contemporary organizational issues, which may include individual and group dynamics, motivation, leadership, organizational change, and development.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 418 - Leadership Strategies

3 Credit(s)

This course presents contemporary theories and approaches to leadership practices in modern organizations. Students learn how effective leadership can assist in the creation of a strong organizational culture and the implications external forces have on individual leadership development and continued growth.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 419 - Organizational Change/Develop

3 Credit(s)

The study of planned and unplanned change in organizations to include diagnosis, planning, and implementation of organizational change initiatives. Emphasis is on teamwork within organizations and survey development.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 466 - Business Ethics Decision Making

3 Credit(s)

This course explores various ethical issues facing business leaders in modern society. Students will utilize current issues to analyze ethical dilemmas and decision-making processes common to modern organizations. Emphasizes critical thinking, critical reading, and the importance of professional ethics.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

Plus 3 Credits from the following

ECON 425 - Economic Policy

3 Credit(s)

Study of the structure and functions of the U.S. economic system and the use of monetary, fiscal, and other policies to stabilize the economy. Emphasis on historical roots and the evolution into new behavioral economic ideas as well as the complex interplay of policy and economic forces.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

ECON 433 - Managerial Economics

3 Credit(s)

Application and integration of microeconomic theory and the tools of decision science to managerial decision-making. Particular emphasis placed on the economic differences caused by monopolies, cartels, and multi-national organizations and their domination of many industries. Understanding of game theory and new economic analysis tools.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

Plus 6 Credits of of 300 to 400 level business or economics courses approved by the student's advisor

Bachelor of Science in Business Administration, Marketing Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

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3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

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3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

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3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Marketing Emphasis

BUS 315 - Sales and Sales Management

3 Credit(s)

This course is designed to introduce students to management techniques as they relate specifically to the marketing and sales area. Topics covered include: the selling process, compensation systems, motivation and leadership, time and territory management, sales forecasting, quotas, and evaluating the sales force.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 335 - Consumer Behavior

3 Credit(s)

Study of consumer behavior as it relates to the marketing functions. Emphasis on the models of consumer behavior and their application to practical marketing problems.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 345 - Advertising

3 Credit(s)

Discusses the history, purposes, and regulations of the advertising industry. Topics covered include creative principles, media advantages and disadvantages, media planning, regulation of advertising, and coordination with other promotion

activities.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 448 - Interactive/Social Media Marketing

3 Credit(s)

This course focuses on relationship marketing, interactive marketing, integration of consumer data, Internet marketing (E-commerce), media advertising, catalogs, mailing lists, telemarketing, and the use of direct marketing techniques to replace or enhance the traditional marketing methods of retail and direct sales.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 454 - Market Research & Information

3 Credit(s)

Study of the theory and methods used in marketing research to address marketing problems. May include the completion of a research project where students learn by performing a research project from problem formulation to writing a research report. Also prepares the students for evaluating research performed by others.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 460 - Marketing Management

3 Credit(s)

Twelve hours of marketing courses and senior status required. Capstone course in marketing. Study of the problems faced by marketing managers as they make decisions and develop policies.

Prerequisite(s):

BUS 454 Minimum Grade: C- OR T

Plus any 3 Courses from the Following

BUS 356 - Retailing

3 Credit(s)

Study of marketing and management problems faced in the operation of a retail business. Emphasis is given to techniques for solving problems in location, management, and merchandising, especially with the integration of Internet retailing (E-Tailing) as both a competitor and an extension of the storefront business.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 385 - Sports Marketing

3 Credit(s)

Illustrates the dynamic, progressive and influential nature of sports marketing. Explores the sport marketing concept as a consumer-driven, integrated, goal-oriented philosophy for a team, event, organization or athlete. Topics covered include: athletic endorsements, team sports, event sponsorships and alternative sports.

BUS 441 - International Marketing

3 Credit(s)

Analysis of opportunities, distinctive characteristics, and emerging trends in foreign markets, including exploration of alternative methods and strategies for entering foreign markets; organizational planning and control; impact of social, cultural, economic, and political differences; and problems of adapting American marketing concepts and methods. This is accomplished through real life planning and implementation of an international marketing plan designed to market a product or service in a foreign country or countries

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 449 - Marketing in the 21st Century

3 Credit(s)

This course provides the practical tools and strategies required to successfully leverage social networks, capitalize on their powerful word-of-mouth lift, and how to measure these interactive marketing efforts. These tools will be used on an actual social media marketing campaign for a business or non-profit entity. Current and future marketing tools will be discussed and evaluated.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T
AND

BUS 448 Minimum Grade: C- OR T

HCA 305 - Health Care Marketing

3 Credit(s)

This course involves an analysis, evaluation, and implementation of marketing strategies within health care and managed-care environments. Designed to develop skills in segmenting customer and medical markets, brand products and services, enhance a communication strategy to the consumer, and develop pricing approaches. Methods and models of marketing fundamentals will be introduced.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

Bachelor of Science in Business Administration, Project Management Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Project Management Emphasis

BUS 351 - Data Analysis

3 Credit(s)

This course introduces data manipulation and analytical techniques to identify insights, improve the ability to make predictions and prescribe future actions to make better business decisions. Excel Software will be used extensively.

Prerequisite(s):

BUS 120, BUS 318

OR

Permission of instructor

BUS 352 - Spreadsheet Modeling

3 Credit(s)

This course covers the fundamentals of spreadsheet modeling in Excel. The course includes spreadsheet modeling, graphical linear programming, linear programming in spreadsheets, time series forecasting, Monte Carlo simulation and decision analysis.

Prerequisite(s):

BUS 120, BUS 318

OR

Permission of instructor

BUS 357 - Project Management

3 Credit(s)

This course covers the fundamentals of project management including project definition, project selection, project planning, estimating, scheduling, resource allocation and project control.

Prerequisite(s):

BUS 120, BUS 318, BUS 361, BUS 363

OR

Permission of instructor

BUS 451 - Statistical Quality Control

3 Credit(s)

Theory and methods used in statistical quality control. Emphasizes basic statistical analysis, variables control charts, attributes control charts, interpretation of control charts, estimation of process parameters, gage capability, acceptance sampling, and service quality.

Prerequisite(s):

BUS 120, BUS 318

OR

Permission of instructor

BUS 452 - Supply Chain Management

3 Credit(s)

Analysis and management of supply chain and logistics management. Topics include customer service, inventory management, information systems, transportation, warehousing, logistics relationships, performance measurement, and supply chain strategy.

Prerequisite(s):

BUS 120, BUS 318, BUS 361, BUS 363

OR

Permission of instructor

BUS 457 - Process Improvement Management

3 Credit(s)

This course introduces continuous improvement concepts via Six Sigma's DMAIC improvement cycle and improvement tools. Students will develop a working knowledge of how to apply these methodologies to improve processes.

Prerequisite(s):

BUS 318, BUS 451

OR

Permission of instructor

Plus 6 Credits from 300-400 Level Business/Econ Courses Approved by the Student's Advisor

Bachelor of Science in Business Administration, Systemic Change and Communities Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

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3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

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3 Credit(s)

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ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

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3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

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BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T
AND

BUS 304 Minimum Grade: C- OR T
AND

BUS 361 Minimum Grade: C- OR T
AND

BUS 363 Minimum Grade: C- OR T
AND

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

Systemic Change and Communities Emphasis

24 credits from the following (8 Classes) is Required

BUS 316 - Public and Nonprofit Mgmt

3 Credit(s)

This course is designed to examine public and nonprofit management. This type of management is driven by mission and/or executive/legislative directions. It is not about the bottom line or profit. Students will learn both the theory and practice of public and nonprofit management, using the concept case method and service learning opportunities.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial

theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 419 - Organizational Change/Develop

3 Credit(s)

The study of planned and unplanned change in organizations to include diagnosis, planning, and implementation of organizational change initiatives. Emphasis is on teamwork within organizations and survey development.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 488 - Agricultural Policy and Farm Bill

3 Credit(s)

Development and implementation of public policy in agriculture, implications of international competition and trade, and development and interpretation of argument in policy development.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

BUS 498 - World Food Distribution/Agricultural Economics

3 Credit(s)

Knowledge and application of economic concepts to the sectors of agriculture including microeconomic and macroeconomic relationships, world markets, and trade.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

ECON 360 - Natural Resource Economics

3 Credit(s)

This course studies the usage of natural resources in the economy, the value of natural resources to society, and the allocation of renewable and nonrenewable resources. The course introduces economic theories for efficient management of natural resources and considers sustainability, conservation, and preservation. The course will consider resources, such as water, on a local scale as well as a global scale.

ECON 365 - Political Economy

3 Credit(s)

This course offers a critical introduction to the central ideas used by Political Economists to understand the structure, social meaning, and historical development of capitalist economies. Lectures draw on competing traditions in Political Economy to provide a critical appreciation of the defining socio-economic relationships of capitalism, including wages, productivity, profits, inequality, prices, entrepreneurship, markets, capitalism, growth, crises, recessions, socialism, etc. While these discussions necessarily involve economic theory, the overall emphasis is on how an analytically diverse understanding of these relationships can open up unique, critical perspectives into the problems of contemporary capitalism.

ECON 370 - Economics of Crises

3 Credit(s)

This course studies the nature of economic crises in capitalism. The course will explore theories of crises such as supply-side, demand-side, and financial crises. We will analyze the social consequences of crises as well as the policies implemented.

ECON 425 - Economic Policy

3 Credit(s)

Study of the structure and functions of the U.S. economic system and the use of monetary, fiscal, and other policies to stabilize the economy. Emphasis on historical roots and the evolution into new behavioral economic ideas as well as the complex interplay of policy and economic forces.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

HCA 402 - Public and Population Health

3 Credit(s)

This course consists of an examination of epidemiological concepts and methods of studying the distribution and determinants of morbidity and mortality in human population. The knowledge and skills acquired should enable one to understand and critically review scientific literature dealing with epidemiology concepts and measures. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 455 - Health Care Economics

3 Credit(s)

This course will examine health care decision-making and the functioning of health care markets in the U.S. The course is not designed as a pure economics theory course but instead emphasizes how you can frame and analyze various health issues using the principles of economics. By doing so, you will gain a powerful new perspective that will help you understand the decisions made by individuals and organizations in the face of scarce resources. Instructor permission.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 462 - Quality Management in Health Care

3 Credit(s)

Quality is an important aspect of health care; indeed, for most people, it is the most important aspect. Quality is defined in the dictionary as "degree of excellence" or "superiority in kind." Quality of care must be part of both the process and outcome of health care whenever possible. The issue is how does the system develop mechanisms to assure such quality? This course serves as an introduction to the process of quality management in health care organizations. Principles of total quality in health care will be discussed. Differentiation between quality assurance and quality

management will also be presented. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

Plus 12 hours of upper level courses as determined in consultation with your advisor

Bachelor of Science in Chemistry

Go to: Chemistry

Specific courses required for this degree:

Completion of the Following Required Courses

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

CHEM 321 - Organic Chemistry

4 Credit(s)

A study of the relationship between structure and reactivity of carbon-containing compounds.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 321L

CHEM 321L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 321. Laboratory time will be divided among

techniques, preparation, and mechanistic studies.

Co-requisite(s): CHEM 321

CHEM 322 - Organic Chemistry

4 Credit(s)

A continuation of CHEM 321.

Prerequisite(s):

CHEM 321 Minimum Grade: C- OR T

Co-requisite(s): CHEM 322L

CHEM 322L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-322. Laboratory time will be divided among mechanistic studies, preparation, introductory qualitative analysis, and independent project work.

Co-requisite(s): CHEM-322

CHEM 331 - Analytical Chemistry

3 Credit(s)

The theory and application of classical and instrumental quantitative analysis with additional emphasis on the fate and analysis of chemicals in the environment.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T
AND

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): CHEM 331L

CHEM 331L - Analytical Chemistry Lab

2 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-331

Co-requisite(s): CHEM-331

CHEM 332 - Analytical Chemistry

3 Credit(s)

A continuation of CHEM 331 with additional coverage of chemical equilibria and electrochemistry.

Prerequisite(s):

CHEM 331 Minimum Grade: D OR T

Co-requisite(s): CHEM 332L

CHEM 332L - Analytical Chemistry Lab

2 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 332.

Co-requisite(s): CHEM 332

CHEM 431 - Physical Chemistry Lecture/Thermodynamics

3 Credit(s)

Thermodynamics as applied to chemistry and physics. Specific topics include the laws of thermodynamics, thermochemistry, reaction and phase equilibrium, solutions, and electrochemistry. An introduction to chemical kinetics is included.

Prerequisite(s):

CHEM-132 Minimum Grade: C- OR T
AND

MATH-121 Minimum Grade: C- OR T

AND

PHYS-225 Minimum Grade: C- OR T

AND

PHYS-226 Minimum Grade: C- OR T

OR

PHYS-230 Minimum Grade: D OR T

AND

PHYS-231 Minimum Grade: D OR T

AND

PHYS-232 Minimum Grade: D OR T

AND

PHYS-233 Minimum Grade: D OR T

Co-requisite(s): CHEM 433

CHEM 432 - Physical Chemistry Lecture/Quantum Mechanics

3 Credit(s)

Quantum mechanics with applications to atomic structure, bonding, solid state, and spectroscopy. An introduction to kinetic molecular theory of gas, transport properties, and statistical mechanics is included.

Prerequisite(s):

CHEM-132 Minimum Grade: C- OR T

AND

MATH-121 Minimum Grade: C- OR T

AND

PHYS-225 Minimum Grade: C- OR T

AND

PHYS-226 Minimum Grade: C- OR T

OR

PHYS-230 Minimum Grade: D OR T

AND

PHYS-231 Minimum Grade: D OR T

AND

PHYS-232 Minimum Grade: D OR T

AND

PHYS-233 Minimum Grade: D OR T

CHEM 433 - Physical Chemistry Laboratory

2 Credit(s)

The principles of physical chemistry applied in the laboratory.

Prerequisite(s):

CHEM 431 Minimum Grade: D OR T

Co-requisite(s): CHEM 431

CHEM 434 - Physical Chemistry Laboratory

2 Credit(s)

The principles of physical chemistry applied in the laboratory. CHEM-434 includes an independent project.

Prerequisite(s):

CHEM 431 Minimum Grade: D OR T

Co-requisite(s): CHEM 432

CHEM 471 - Chemistry Seminar

1 Credit(s)

Capstone course intended for senior chemistry majors consisting of seminars presented by guest speakers, staff, and students; an assessment exam for seniors; and job placement information. Prerequisite: Completion of sufficient degree requirements to be within three semesters of graduating with a chemistry major.

CHEM 472 - Chemistry Seminar Continuation

1 Credit(s)

A continuation of CHEM 471.

Prerequisite(s):

CHEM 471 Minimum Grade: C- OR T

CHEM 401 - Biochemistry

3 Credit(s)

A study of structural biochemistry. Course begins with a review of water, the lipophilic environment, noncovalent bonding, and bioenergetics. Topics include amino acids, peptides, proteins, nucleic acids, carbohydrates, and lipids. Enzymes are discussed with emphasis on mechanism and kinetics.

Prerequisite(s):

CHEM 322 Minimum Grade: C- OR T

Co-requisite(s): CHEM 401L

CHEM 401L - Biochemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-401. Laboratory time will be spent learning protein purification techniques and doing independent project work.

Co-requisite(s): CHEM-401

CHEM 461 - Inorganic Chemistry

3 Credit(s)

Theoretical aspects of inorganic chemistry based upon periodic relationships, symmetry, structure bonding, and reactivities. Offered fall semesters of odd-numbered years.

Prerequisite(s):

CHEM-321 Minimum Grade: C- OR T
AND

CHEM-322 Minimum Grade: C- OR T

OR

CHEM-331 Minimum Grade: C- OR T

AND

CHEM-332 Minimum Grade: C- OR T

Co-requisite(s): CHEM-461L

CHEM 461L - Inorganic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-461. Practices of inorganic chemistry in the laboratory including synthesis and characterization of compounds.

Co-requisite(s): CHEM-461

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

MATH 220 - Calculus III

4 Credit(s)

This course is an introduction to the calculus of functions of several variables. Typical topics include three-dimensional analytic geometry, vectors, parametric curves and surfaces, arc length and curvature, limits, continuity, partial derivatives, gradients, directional derivatives, tangent planes, multiple integrals, vector fields, line and surface integrals, Green's theorem, Stokes' Theorem, and the divergence theorem.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

OR

MATH 327 - Differential Equations

3 Credit(s)

An introduction to the study and application of ordinary differential equations. Typical topics include first order differential equations, linear differential equations, systems of equations, existence and uniqueness of solutions, bifurcations, the Laplace transform, matrix methods, and stability theorems.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for

students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

The Following Courses Are Recommended

CHEM 424 - Advanced Organic Chemistry

3 Credit(s)

A third semester course in organic chemistry, designed for students who wish to gain a better background in the subject. Topics include bioorganic chemistry, pericyclic reaction, and natural products synthesis. Offered in spring semesters upon sufficient demand. Three hours of lecture per week.

Prerequisite(s):

CHEM 322 Minimum Grade: C- OR T

CHEM 445 - Polymer Chemistry**3 Credit(s)**

Introduction to the chemistry of organic, inorganic, and bio-polymers, with an emphasis on synthesis, mechanism, and reaction kinetics. Modern methods of polymer characterization are also covered. Offered upon sufficient demand.

Prerequisite(s):

CHEM-322 Minimum Grade: C- OR T

AND

CHEM-431 Minimum Grade: D OR T

CHEM 334 - Environmental Chemistry**3 Credit(s)**

This course is designed to introduce the student to a series of topics including stratospheric chemistry, air pollution, global warming, climate change, renewable energy, pesticides, water pollution, and heavy metal pollution.

Prerequisite(s):

CHEM 331 Minimum Grade: C- OR T

Co-requisite(s): CHEM 334L

CHEM 334L - Environmental Chemistry Lab**1 Credit(s)**

Required companion laboratory to be taken concurrently with CHEM 334.

Co-requisite(s): CHEM 334

ECON 255 - Macroeconomics Principles GT-SS1**3 Credit(s)**

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

MATH 321 - Linear Algebra**3 Credit(s)**

An introduction to linear algebra. Typical topics include solutions of systems of linear equations, matrix algebra, determinants, vector spaces, linear independence, span, basis, dimension, coordinates, linear transformations, matrix representations of linear transformations, eigenvalues, eigenvectors, diagonalization, Gram-Schmidt orthonormalization

projection, and applications.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

PHYS 300 - Electronics and Microcontrollers

4 Credit(s)

A combined lecture and laboratory course in electronics consisting of four laboratory contact hours and two lecture contact hours per week. The course is a study in operational amplifiers, TTL integrated circuits, and microcontroller interfacing and programming. The focus is on applications and circuit design. Offered in the fall of even years.

Prerequisite(s):

PHYS 226 Minimum Grade: C- OR T
OR

PHYS 232 Minimum Grade: C- OR T

Notes

Students planning graduate work in biochemistry or biology should take CHEM 401 and CHEM 402. Taking both is highly recommended for students going to graduate school in either field. For students oriented in the physical or theoretical areas of chemistry, both MATH 220 and MATH 327 are recommended.

Bachelor of Science in Computer Science

Go to: Engineering and Computer Science

Degree Requirements

In addition to the Graduation Requirements for Undergraduates:

Complete the following Required Courses

CSCI 104 - Fundamentals of Programming

3 Credit(s)

This course is the first course in the introductory programming sequence for computer science and information technology majors, but is suitable for non-majors interested in getting a taste of computer programming. The course covers program creation, basic control structures, variables, arithmetic expressions, functions, parameters, internal documentation, arrays and strings.

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing

techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

CSCI 205 - Computer Science I

4 Credit(s)

This course is the second course in the introductory programming sequence for computer science majors. Through the study of object design this course introduces the basics of graphical user interfaces, data types, control structures, methods, arrays, strings, files, simple graphics and fundamental algorithms. Students will also be introduced to object oriented design, polymorphism, interfaces, the concept of object abstraction, and simple design patterns.

Prerequisite(s):

CSCI 104 Minimum Grade: C- OR T

OR

CSCI 202 Minimum Grade: C- OR T

CSCI 206 - Computer Science II

4 Credit(s)

This course is the third course in the introductory programming sequence for computer science. The course continues object oriented programming and first concepts in object oriented software design. The course also covers classic data structures and algorithms. Concepts covered include streams, graphs, trees, recursion, complexity classes, sorting and searching routines, basic algorithm design and analysis, threading, and generic programming.

Prerequisite(s):

CSCI 205 Minimum Grade: C- OR T

CSCI 224 - Discrete Concepts

4 Credit(s)

A course on the fundamentals of discrete (as opposed to continuous) processes. The course is a foundational course for students pursuing the B.S. Mathematical Sciences Computer Science degree. The course covers a variety of discrete mathematical topics required for a solid background in computer science, including mathematical logic, set theory, induction, algorithmic complexity, combinatorics, discrete probability, basic graph theory, relations, Boolean algebra, finite state automata, and basic theory of computation.

Prerequisite(s):

Math Placement Test - Minimum Score: 5

OR

MATH 106 Minimum Grade: C- OR T

AND

CSCI 205 Minimum Grade: C- OR T

CSCI 318 - Multiprocessor Computing

3 Credit(s)

Introduction to multiprocessor programming and application development covers the principles and practice of distributed system architectures and models, interprocess communication, distributed algorithms, concurrency, security, application programming interfaces, system performance, and programming paradigms appropriate for programming of multiprocessor systems.

Prerequisite(s):

CSCI 325 Minimum Grade: C- or T

MATH 321 - Linear Algebra

3 Credit(s)

An introduction to linear algebra. Typical topics include solutions of systems of linear equations, matrix algebra, determinants, vector spaces, linear independence, span, basis, dimension, coordinates, linear transformations, matrix representations of linear transformations, eigenvalues, eigenvectors, diagonalization, Gram-Schmidt orthonormalization projection, and applications.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

CSCI 325 - Algorithm Design and Analysis

3 Credit(s)

Introduces formal techniques to support the design and analysis of algorithms, focusing on both the underlying mathematical theory and practical considerations of efficiency. Topics include asymptotic complexity bounds, techniques of analysis, algorithmic strategies, and an introduction to automata theory and its application to language translation.

Prerequisite(s):

CSCI 205 Minimum Grade: C- or T
AND

CSCI 206 Minimum Grade: C- or T

AND

MATH 250 Minimum Grade: C- or T

CSCI 335 - Foundations of Networks

4 Credit(s)

This course introduces students to computer networks. Focus is on the concepts of networking like the OSI layered network architectures, network protocols and protocol design. Topics include the fundamentals of networking and communications, network management and wireless computing. Lab sessions feature computer networking hands-on exercises. The course also exposes students to network programming through the use of sockets

Prerequisite(s):

CSCI 205 Minimum Grade: C- OR T

CSCI 343 - Database Systems and Applications

4 Credit(s)

Introduction to database design, implementation, security, transaction management, administration, and programming. Includes a study of embedded, relational, object-oriented, and distributed database architectures.

Prerequisite(s):

CSCI 205 Minimum Grade: C- OR T

CSCI 347 - Software Development/Professional Practice I

2 Credit(s)

Combines a range of topics integral to the design, implementation, and testing of medium-scale software systems including fundamental design patterns, software development processes and project management. Students will form teams, work on two small projects during the term and create a proposal for a medium scale software system to be completed in CS348. In addition to material on software architecture and engineering, this course also includes material on professionalism and ethical responsibilities in software development and design.

Prerequisite(s):

CSCI 206 Minimum Grade: C- OR T

CSCI 348 - Software Development/Professional Practice II

2 Credit(s)

The follow up course for CSCI 347 in which students will implement, with their team, a software design they created in CSCI 347. Students will experience project management and software development processes directly. The course will focus on programming techniques and the last stages of the software development process, including design, validation, evolution, human computer interaction, using APIs, software tools and software development environments.

Prerequisite(s):

CSCI 347 Minimum Grade: C- OR T

CSCI 417 - Computer Systems and Architecture

4 Credit(s)

This class will familiarize students with the basics of the inner workings and design of Computer Systems. The course will examine how operating systems, computer hardware and other system software/hardware combine to produce a usable, efficient and secure system. Topics will include basic machine architecture, memory management (primary and secondary), bus principles, I/O devices, data representation, file systems, process/thread management, scheduling, simple digital logic, virtualization, real time systems concepts, and embedded systems. This course will also examine alternative system designs including basic distributed systems.

Prerequisite(s):

CSCI 206 Minimum Grade: C- OR T

CSCI 427 - Cybersecurity

4 Credit(s)

This course provides an in-depth study of network attack techniques and methods to defend against them. Areas of study include communication security, infrastructure security, social engineering, cryptography, operational and organizational security as it relates to network hardware, software and data. Topics include authentication, confidentiality, integrity, virtual private networks, email protection, web security, wireless security, firewalls, intrusion detection, cryptography, disaster recovery and computer forensics regarding networked systems. In addition, this course combines an ethical methodology with the hands-on application of security tools to better help students to secure and defend their systems, as well as to investigate and diagnose security breaches. Students are introduced to common countermeasures that effectively reduce and/or mitigate attacks. This class is designed to help students prepare for professional careers in the information security field and the Certified Ethical Hacker (CEH) certification exam. The course contains a lab component where students will conduct a variety of security based hands-on activities using open source actual or virtual systems.

Prerequisite(s):

CSCI 206 with Minimum Grade C- OR T
AND

CSCI 335 with Minimum Grade C- OR T

CSCI 428 - Artificial Intelligence

3 Credit(s)

Provides both a brief overview of the basics of artificial intelligence and machine learning, and an in-depth investigation of selected hot topics in the field. The course will examine basic and advanced search techniques, knowledge representation, machine learning and data mining, natural language processing, and historical and philosophical issues regarding artificial intelligence. The course is a project-based course that will involve implementing and experimenting with open-source machine-learning software.

Prerequisite(s):

CSCI 206 Minimum Grade: C- or T
AND

CSCI 224 Minimum Grade: C- or T

CSCI 438 - Cloud Computing

3 Credit(s)

This course educates participants about cloud deployment and service models, cloud infrastructure and the key considerations in migrating to cloud computing. For all definitions of cloud computing, the course has resorted to the U.S. National Institute of Standards and Technology as a guide. The course covers technologies required to build classic (traditional), virtualized, and cloud data center environments. These technologies include compute, storage, networking, desktop and application virtualization. Additional areas of focus include backup/recovery, business continuity, security, and management. Students will learn about the key considerations and steps involved in transitioning from the current state of their data center to a cloud computing environment. Upon completing this course, participants will have the knowledge to make informed decisions about migrating to cloud infrastructure and choosing the best deployment model for their organization.

Prerequisite(s):

CSCI 318 minimum grade C- or T
AND

CSCI 335 minimum grade C- or T

AND

CSCI 417 minimum grade C- or T

CSCI 471 - Senior Capstone I

1 Credit(s)

First-semester of a capstone course intended for senior computer science and information technology majors. In this course students will begin the development of a project to be conducted under the guidance of a faculty advisor from the department. In addition, the course will focus on written and oral communication of technical material appropriate to the disciplines of mathematics, computer science, and physics.

CSCI 472 - Senior Capstone II

1 Credit(s)

Second-semester of a capstone course intended for senior computer science and information technology majors. In this course students will continue the development of an independent project, begun in CSCI 471, and conducted under the guidance of a faculty advisor from the department. In addition, the course will focus on written and oral communication of a technical material appropriate to the mathematical sciences.

Prerequisite(s):

CSCI 471 Minimum Grade: C- OR T

Bachelor of Science in Geosciences, Geology Emphasis

Go to: Geosciences

Completion of the Following Required Courses

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

GSCI 112 - Earth History

4 Credit(s)

Introduction to the geological evolution of the earth through time using basic principles of stratigraphy and paleontology. Laboratory work includes identification and classification of fossils and correlation of sedimentary environments.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

GSCI 201 - Introduction to Cartography and GIS

3 Credit(s)

This course will introduce students to the core concepts of Geographic Information Systems (GIS) and the importance and relevance of GIS in today's world. Students will learn what GIS is, what it is used for, and how to perform basic and core tasks involving GIS analysis. An objective is to help students develop the ability to think critically about cartographic processes and representations as well as develop their skills in creating maps. Students are expected to have basic computer proficiency prior to enrolling in this course.

GSCI 321 - Geomorphology with Environmental Applications

4 Credit(s)

This course is a study of the processes that control the development of the materials and landforms found on the earth's surface. An emphasis is placed upon the hydrologic and variables in generating landforms and human interactions with these formative processes. Field trips, topographic map, and aerial photo exercises are required. Offered spring semester of even-numbered years.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 331 - Macro and Optical Mineralogy

5 Credit(s)

This course provides a systematic identification of natural minerals and gemstones utilizing their physical, crystallographic, and optical characteristics.

Prerequisite(s):

GSCI 112 Minimum Grade: C- OR T

GSCI 334 - Igneous/Metamorphic Petrology

5 Credit(s)

The study of the occurrence and origin of igneous and metamorphic rock. Laboratory exercises will emphasize the petrographic analysis of both macro and optical components of igneous and metamorphic rocks. Course includes field

trips. Course is offered Spring semester of even-numbered years. GSCI-334 is a complimentary course with GSCI-343 Sedimentology and Stratigraphy

Prerequisite(s):

GSCI 331 Minimum Grade: C- OR T

GSCI 343 - Sedimentology and Stratigraphy

4 Credit(s)

This course studies the origin and occurrence of sedimentary materials and their vertical succession. Sediment dynamics and structures will be explored within various depositional settings. Course includes required field trips. GSCI-343 is complementary to Igneous and Metamorphic Petrology (GSCI-334).

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 371 - Structural Geology

4 Credit(s)

This course focuses on the recognition, representation, and significance of geologic structures of the earth's crust. This course includes occasional required field trips and is offered fall semester of even-numbered years.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 450 - Senior Capstone in Geosciences

2 Credit(s)

Capstone experiences integrate material learned in the major through independent research and creative thinking by students. The capstone experience may include a primary research experience (such as field project or internship) or a substantive exploration of a geoscience topic. Emphasis is also placed on effective writing and oral presentation skills.

GSCI 495 - Field Geology

6 Credit(s)

This course teaches fundamental applications of traditional geological field mapping methods and recognition of geological features in an outdoor setting. Report writing, presentations, and planning for field work are also covered. Modern technology is included whenever appropriate to learning field-based methods.

A Minimum of 2 of the Following Three Courses

GSCI 330 - Nature and Properties of Soils

4 Credit(s)

This course analyzes soils as natural bodies and managed resources, focusing on impacts of landforms, hydrology, nutrients, and organisms on soils. The laboratory includes analysis of soil patterns, methods of sampling, and

techniques of determining physical and chemical properties of soils. Course includes three hours of lecture and two hours of laboratory per week.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

GSCI 433 - Environmental Geochem Model

3 Credit(s)

This lecture and computer modeling course examines the interaction of geological materials with the surface environment. Processes of transport and fate of contaminants and pollutants from natural and man made sources will be addressed, as well as the geology of some natural resources that contribute pollutants.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

AND

CHEM 131 Minimum Grade: C- OR T

OR

CHEM 132 Minimum Grade: C- OR T

GSCI 440 - Groundwater

4 Credit(s)

This course explores the groundwater system and its relationship with surface water systems of rivers, lakes, and oceans.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620 and GSCI 112 Minimum Grade: C- or T

Completion of Required Support courses

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T
OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 226 - College Physics II

5 Credit(s)

The second course of a two-semester lecture-laboratory sequence introducing the fundamental principles of physics. In the second semester, students will be introduced to the areas of electricity, electric circuits, optics, and topics in modern physics. Conceptual understanding as well as problem-solving techniques will be emphasized in the lecture. The laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture.

Prerequisite(s):

PHYS 225 Minimum Grade: C- OR T

Recommended Courses

GSCI 123 - Geology of the San Luis Valley

1 Credit(s)

This course explores the local geology of the San Luis Valley and surrounding areas on day trips. Course is offered during the fall or spring semester. Outdoor activity required.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 350 - Geology Excursion

2 Credit(s)

This course centers around a field trip experience of approximately one week, generally during spring break, to different areas of the southwestern U.S. This course may be taken only twice for credit. An additional fee is required. Camping and outdoor activity is required.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

Bachelor of Science in Geosciences, Physical Geography and Conservation Emphasis

Go to: Geosciences

Completion of the Following Required Courses

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of

the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

GSCI 201 - Introduction to Cartography and GIS

3 Credit(s)

This course will introduce students to the core concepts of Geographic Information Systems (GIS) and the importance and relevance of GIS in today's world. Students will learn what GIS is, what it is used for, and how to perform basic and core tasks involving GIS analysis. An objective is to help students develop the ability to think critically about cartographic processes and representations as well as develop their skills in creating maps. Students are expected to have basic computer proficiency prior to enrolling in this course.

GSCI 212 - Natural Resource Management on Public Lands

3 Credit(s)

This course will examine public lands management from both a theoretical and descriptive perspective. The major political forces affecting public lands, and the specific details of energy policy, forests, rangelands, national parks, and wildlife on public lands are discussed.

Prerequisite(s):

GSCI 109 Minimum Grade: C-
OR

BIOL 330 Minimum Grade: C-

GSCI 300 - World Geography

3 Credit(s)

The course examines human or cultural geography with a global perspective. It uses a topic centered approach. It is intended to give the student an appreciation of the interaction between physical geography, environment, and cultural practices.

GSCI 450 - Senior Capstone in Geosciences

2 Credit(s)

Capstone experiences integrate material learned in the major through independent research and creative thinking by students. The capstone experience may include a primary research experience (such as field project or internship) or a substantive exploration of a geoscience topic. Emphasis is also placed on effective writing and oral presentation skills.

Plus a Minimum of Three Courses from the Following (11 to 12 Credits)

GSCI 307 - Bio-Geography

3 Credit(s)

The course builds upon topics introduced in the introductory physical geography and general biology courses and synthesizes concepts addressed in other upper-division courses dealing with vegetation science, climatology, soil, historical geology, ecology, and evolution to explain patterns and processes influencing past and present distributions of organisms.

Prerequisite(s):

GSCI 109 Minimum Grade: C-
AND

BIOL 209 Minimum Grade: C-

GSCI 311 - Climatology

4 Credit(s)

This course examines the global patterns of climate and the processes that shape them. Particular attention is given to climate change mechanisms (past & present), human-induced changes to the climate system, and likely future climates. Field- and computer-based methodology relevant to the field of climatology is also emphasized.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 321 - Geomorphology with Environmental Applications

4 Credit(s)

This course is a study of the processes that control the development of the materials and landforms found on the earth's surface. An emphasis is placed upon the hydrologic and variables in generating landforms and human interactions with these formative processes. Field trips, topographic map, and aerial photo exercises are required. Offered spring semester of even-numbered years.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 330 - Nature and Properties of Soils

4 Credit(s)

This course analyzes soils as natural bodies and managed resources, focusing on impacts of landforms, hydrology, nutrients, and organisms on soils. The laboratory includes analysis of soil patterns, methods of sampling, and techniques of determining physical and chemical properties of soils. Course includes three hours of lecture and two hours of laboratory per week.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

Plus a Minimum of Two Courses from the Following (6 or 7 Credits)

GSCI 411 - Mountain Geography

3 Credit(s)

This class focuses on the physical science of mountains, including the origin of mountains as well as the climatic, geomorphic, and ecological processes and patterns found in mountain environments. The impact of mountains on human settlement and activities are discussed, as well as how humans have impacted mountain environments.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 420 - Remote Sensing

4 Credit(s)

The course considers acquisition and interpretation of remote sensed environmental data, theory and sensors, and

manual and computerized interpretation methods.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T
AND

GSCI 201 Minimum Grade: C- OR T

GSCI 421 - Glacial and Periglacial Geography

3 Credit(s)

This course will examine geomorphological aspects of the cryosphere, giving emphasis to the study of landforms and sediments created by ice sheets and periglacial processes both past and present. Where relevant, the applied aspects of glacial and periglacial geomorphology will be given specific attention.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 462 - Geography and Geology of World Regions

3 Credit(s)

This field course, offered during winter, spring, or summer break, explores regions of the world through a geographic and geological perspective. A different region is studied every other summer. Focus is placed on understanding the structural geology, tectonic landscape, surficial processes, and human-environment interactions of the region. Students will gain an intimate knowledge of world regions, landscapes, and cultures. Examples of world regions include the Northern Alps, Iceland, Great Britain and Newfoundland, and Japan.

Plus a Minimum of Two Courses from the Following (6 to 8 Credits)

GSCI 112 - Earth History

4 Credit(s)

Introduction to the geological evolution of the earth through time using basic principles of stratigraphy and paleontology. Laboratory work includes identification and classification of fossils and correlation of sedimentary environments.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

GSCI 343 - Sedimentology and Stratigraphy

4 Credit(s)

This course studies the origin and occurrence of sedimentary materials and their vertical succession. Sediment dynamics and structures will be explored within various depositional settings. Course includes required field trips. GSCI-343 is complementary to Igneous and Metamorphic Petrology (GSCI-334).

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 433 - Environmental Geochem Model

3 Credit(s)

This lecture and computer modeling course examines the interaction of geological materials with the surface environment. Processes of transport and fate of contaminants and pollutants from natural and man made sources will be addressed, as well as the geology of some natural resources that contribute pollutants.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

AND

CHEM 131 Minimum Grade: C- OR T

OR

CHEM 132 Minimum Grade: C- OR T

GSCI 440 - Groundwater

4 Credit(s)

This course explores the groundwater system and its relationship with surface water systems of rivers, lakes, and oceans.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620 and GSCI 112 Minimum Grade: C- or T

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T
AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

BIOL 314 - Conservation Biology

3 Credit(s)

Conservation biology is the study of how to preserve the world's biological and genetic diversity while maintaining functional ecosystems. The course will explore these issues using an integrated approach with emphasis on identifying ways that wildlife and humans can sustainably coexist.

Prerequisite(s):

BIOL 330 Minimum Grade: C- OR T
OR

GSCI 307 Minimum Grade: C- OR T

BIOL 468 - Vegetation/Habitat Management

3 Credit(s)

A study of the composition, structure and productivity of vegetation with emphasis on ecological applications in creating and managing wildlife habitat.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

OR

BIOL 330 Minimum Grade: C- OR T

AND

GEOG 212 Minimum Grade: C- OR T

Plus a Minimum of One Course from the Following (3 Credits)

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 384 - Natural Resources/Water Law

3 Credit(s)

The goal of this course is to provide students with knowledge of the regulatory responsibilities related to agriculture production and operations with respect to natural resources and water. The course will cover federal, state, and local requirements as well as application to agribusiness endeavors.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 211 Minimum Grade: C- OR T

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

Completion of Required Support Courses

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T

OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-

OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

Note

A minor is highly recommended. Consult with an advisor.

Bachelor of Science in Kinesiology, Exercise Science Emphasis

Go to: Department of Kinesiology

Complete the Following Core Courses

BIOL 205 - Human Anatomy and Physiology I

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The integumentary, skeletal, muscular, and nervous systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Test - Minimum Score: 3 **OR** MATH 97 Minimum Grade: S or S-C or T **OR** MATH

99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T and SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18 **OR** ENG 96 Minimum Grade: S or T

BIOL 206 - Human Anatomy and Physiology II

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The digestive, respiratory, circulatory, urinary, endocrine, and reproductive systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL 205 Minimum Grade: C- or T

OR

BIOL 210 Minimum Grade: C- or T

KIN 100 - Foundations of Kinesiology

3 Credit(s)

This course serves as an overview of the historical, philosophical, ethical and sociological foundations of Kinesiology. This course will be delivered with a specific emphasis on exercise science, sport management, sport psychology, and coaching. Students also will study current issues, challenges and trends as they relate to professional careers and the administration of sport, fitness, and physical education. Embedded within this course is an introduction to the key Academic Program Goals of Kinesiology.

KIN 120 - Concepts in Wellness

3 Credit(s)

In this course, students will learn about the various dimensions of wellness, assess their own health status, and design interventions to improve personal health through lecture, video, laboratory experiences, and physical activities. This course will also provide students with the information necessary to make evidence-based decisions regarding personal wellness and to understand health disparities among diverse populations. There is a physical activity component to this course.

KIN 329 - Exercise Physiology

3 Credit(s)

This course presents an introduction and overview of the physiological bases of physical education, sport, and athletics.

The effects of exercise on the various systems will be considered. Practical application of exercise science to physical fitness and athletic performance will be emphasized.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

Co-requisite(s): KIN-329L

KIN 329L - Exercise Physiology Lab

1 Credit(s)

This exercise physiology lab class is designed to supplement the exercise physiology lecture course. This course will provide students with a hands-on experience in which they can apply concepts learned in the classroom to practice in the human performance laboratory and field of exercise, fitness, and sport.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

Co-requisite(s): KIN-329

KIN 340 - Kinesiology

3 Credit(s)

This course focuses on the nature of human movement as influenced by those motor factors, anatomical factors, and mechanical principles that apply at rest and in motion.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

AND

KIN 329 Minimum Grade: C- OR T

AND

KIN 329L Minimum Grade: C- OR T

KIN 341 - Human Motor Development

3 Credit(s)

This course is designed to educate Kinesiology majors in the principles of human motor behavior and its influence on

cognitive, affective, and psychomotor development throughout the lifespan. It will introduce students to factors that affect the intellectual, social, emotional, and physical development, growth and maturation of individuals relative to motor acquisition and regression.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

AND

BIOL 206 Minimum Grade: C- OR T

KIN 360 - Statistics in Kinesiology

3 Credit(s)

This course is designed to introduce students to statistical theories, data collection procedures, techniques for analysis and interpretation of data in Kinesiology.

KIN 448 - Adapted Physical Activity

3 Credit(s)

This course is designed to introduce students to legal issues and current trends in instruction and programming across a variety of adapted physical activity settings. Emphasis will be placed on developing knowledge of various disabling conditions, potential activity modifications, and placement alternatives in the physical activity setting. Instruction will focus on inclusion of individuals with special needs in the general physical education program and other physical activity settings as well as the acquisition of lifetime physical activity skills.

Prerequisite(s):

KIN 341 Minimum Grade: C- OR T
AND

BIOL 112 Minimum Grade: C- OR T

OR

BIOL 205 Minimum Grade: C- OR T

AND

BIOL 206 Minimum Grade: C- OR T

KIN 450 - Senior Capstone

3 Credit(s)

This course is designed as a culminating experience for Kinesiology majors. The focus of this High Impact Practice course will be on integrating prior knowledge, competencies, and experiences into practical applications and further professional development. Three main areas will be covered: service-learning, professional development, and personal reflection in relation to the student experience at Adams State.

Prerequisite(s):

Teacher Education Background Check Passed

Exercise Science Emphasis Courses

KIN 301 - Sport and Fitness Nutrition

3 Credit(s)

This course will present a review of basic nutrition. The course will also explore the areas of sport, exercise and fitness nutrition, supplementation, sport drug use and abuse, weight loss diets, eating disorders, weight gain nutrition, body composition, and the metabolic nutritional requirements of various sports and fitness activities.

Prerequisite(s):

KIN-329 Minimum Grade: C- OR T

AND

BIOL-112 Minimum Grade: C- OR T

OR

BIOL-205 Minimum Grade: C- OR T

KIN 302 - Sport Psychology

3 Credit(s)

Sport psychology is primarily concerned with the interaction between psychological variables and participation in sport and exercise. This course will review this interaction by addressing variables that affect the individual athlete, influence sport and exercise environments, shape group processes, enhance health and wellbeing, improve performance, and facilitate psychological growth and development in sport participants from diverse populations.

KIN 309 - Care / Prevention of Athletic Injuries

3 Credit(s)

The course will focus on the care and prevention of athletic injuries, including the evaluation, nature, types, and functions of various rehabilitation programs.

KIN 380 - Diversity, Equity Sport, and Society

3 Credit(s)

This course has a two-fold purpose: first, it is designed to provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask questions and think critically about sport as a part of society. This course will explore issues around diversity, equity and inclusion in sport and society.

KIN 422 - Exercise Evaluation and Fitness Management

3 Credit(s)

This course is designed to familiarize students with the current methods used to determine levels of fitness in apparently healthy individuals, as well as individuals from special populations. Students will learn how to prescribe exercise for these individuals based on their fitness evaluation, basic training principles and other considerations. Students will be given the opportunity to test various individuals within specific testing parameters, and apply course knowledge to practical situations.

Prerequisite(s):

KIN 329L Minimum Grade: C- OR T

KIN 427 - Coaching Tech Strength / Conditioning

3 Credit(s)

This course is designed to provide information relative to the basic foundation of coaching sports conditioning including muscle physiology, bioenergetics, training methodology, exercise technique, program design, and facility management. Students will be given the opportunity to develop a general strength coaching philosophy and to demonstrate their knowledge relative to proper lifting techniques demonstrate their knowledge relative to proper lifting and training procedures.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T

KIN 429 - Advanced Exercise Physiology

3 Credit(s)

This course involves the advanced study of the various physiological systems involved in exercise, fitness and sport. The effects of exercise on these systems will be investigated. Practical application of exercise science knowledge and research to physical fitness and athletic performance will be emphasized.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T

AND

KIN 329L Minimum Grade: C- OR T

KIN 430 - Biomechanics

3 Credit(s)

This course will involve the study of the mechanical principles and factors that influence human movement. Students will develop an understanding of the biomechanical principles to human movement.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T

AND

KIN 329L Minimum Grade: C- OR T

AND

KIN 340 Minimum Grade: C- OR T

KIN 484 - Internship in Kinesiology

3 Credit(s)

This course provides kinesiology students with an opportunity to gain direct work experience in their chosen career field. All Internships in Kinesiology must follow the relevant procedures outlined in the syllabus to be recognized as an ASU internship and to be awarded ASU credit.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T
AND

KIN 422 Minimum Grade: C- OR T

Electives (15 Hours Required)

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 112 - Introduction to Organic/Biological Chemistry

4 Credit(s)

A study of the fundamental concepts of organic chemistry and biochemistry. Will not satisfy requirements for a chemistry major, minor or pre-professional studies (pre-med etc.) The course is satisfactory for biology majors who take only one year of chemistry, and for HPPE advanced track.

Prerequisite(s):

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 112L

CHEM 112L - Introduction to Organic/Biological Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 112.

Co-requisite(s): CHEM 112

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T
OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T
OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-

OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 226 - College Physics II

5 Credit(s)

The second course of a two-semester lecture-laboratory sequence introducing the fundamental principles of physics. In the second semester, students will be introduced to the areas of electricity, electric circuits, optics, and topics in modern physics. Conceptual understanding as well as problem-solving techniques will be emphasized in the lecture. The laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture.

Prerequisite(s):

PHYS 225 Minimum Grade: C- OR T

- Or other science courses as approved by advisor

All students are required to hold a current and valid CPR, First-Aid, AED card for all upper-division courses.

Bachelor of Science in Kinesiology, Sport & Exercise Studies Emphasis

Go to: Department of Kinesiology

Complete the Following Core Courses

BIOL 112 - Human Anatomy

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure of the human body. Typically taken by HPPE students. Topics include gross anatomy, histology, the relationship between structure and function, and anatomical changes associated with disease processes. Course includes three hours of lecture and two hours of laboratory per week.

KIN 100 - Foundations of Kinesiology

3 Credit(s)

This course serves as an overview of the historical, philosophical, ethical and sociological foundations of Kinesiology. This course will be delivered with a specific emphasis on exercise science, sport management, sport psychology, and coaching. Students also will study current issues, challenges and trends as they relate to professional careers and the administration of sport, fitness, and physical education. Embedded within this course is an introduction to the key Academic Program Goals of Kinesiology.

KIN 120 - Concepts in Wellness

3 Credit(s)

In this course, students will learn about the various dimensions of wellness, assess their own health status, and design interventions to improve personal health through lecture, video, laboratory experiences, and physical activities. This course will also provide students with the information necessary to make evidence-based decisions regarding personal wellness and to understand health disparities among diverse populations. There is a physical activity component to this course.

KIN 329 - Exercise Physiology

3 Credit(s)

This course presents an introduction and overview of the physiological bases of physical education, sport, and athletics. The effects of exercise on the various systems will be considered. Practical application of exercise science to physical fitness and athletic performance will be emphasized.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

Co-requisite(s): KIN-329L

KIN 329L - Exercise Physiology Lab

1 Credit(s)

This exercise physiology lab class is designed to supplement the exercise physiology lecture course. This course will provide students with a hands-on experience in which they can apply concepts learned in the classroom to practice in the human performance laboratory and field of exercise, fitness, and sport.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

Co-requisite(s): KIN-329

KIN 340 - Kinesiology

3 Credit(s)

This course focuses on the nature of human movement as influenced by those motor factors, anatomical factors, and mechanical principles that apply at rest and in motion.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

AND

KIN 329 Minimum Grade: C- OR T

AND

KIN 329L Minimum Grade: C- OR T

KIN 341 - Human Motor Development

3 Credit(s)

This course is designed to educate Kinesiology majors in the principles of human motor behavior and its influence on cognitive, affective, and psychomotor development throughout the lifespan. It will introduce students to factors that affect the intellectual, social, emotional, and physical development, growth and maturation of individuals relative to motor acquisition and regression.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

AND

BIOL 206 Minimum Grade: C- OR T

KIN 450 - Senior Capstone

3 Credit(s)

This course is designed as a culminating experience for Kinesiology majors. The focus of this High Impact Practice course will be on integrating prior knowledge, competencies, and experiences into practical applications and further

professional development. Three main areas will be covered: service-learning, professional development, and personal reflection in relation to the student experience at Adams State.

Prerequisite(s):

Teacher Education Background Check Passed

Sport & Exercise Studies Emphasis Requirements

KIN 210 - Sport Communication and Techniques

3 Credit(s)

This course introduces students to the main skills required for sports journalism and public relations, with particular emphasis on writing and public speaking. Students will learn about the historical development and cultural significance of sport and how those have shaped the business of sport. Students will also be introduced to technologies that impact on their abilities to write and disseminate stories and on how those technologies affect the character of messaging.

KIN 301 - Sport and Fitness Nutrition

3 Credit(s)

This course will present a review of basic nutrition. The course will also explore the areas of sport, exercise and fitness nutrition, supplementation, sport drug use and abuse, weight loss diets, eating disorders, weight gain nutrition, body composition, and the metabolic nutritional requirements of various sports and fitness activities.

Prerequisite(s):

KIN-329 Minimum Grade: C- OR T
AND

BIOL-112 Minimum Grade: C- OR T

OR

BIOL-205 Minimum Grade: C- OR T

KIN 305 - Sport Facility Management

3 Credit(s)

This course introduces students to the discipline of facility management as they relate to the sport, recreation, and leisure industries. Key topics will include planning, designing, managing, scheduling, leading, and supervising sport facilities.

Prerequisite(s):

KIN 100 Minimum Grade: C- OR T
AND

BUS 103 Minimum Grade: C- OR T

KIN 309 - Care / Prevention of Athletic Injuries

3 Credit(s)

The course will focus on the care and prevention of athletic injuries, including the evaluation, nature, types, and functions of various rehabilitation programs.

KIN 350 - Methods of Coaching

3 Credit(s)

This course is intended to provide the foundations of coaching for a person who wants to coach at the youth, elementary, high school or college level. Through a series of discussions, readings, and other projects, the potential coach will gain the knowledge and skills required to be an effective coach. This course will address the many roles and duties a coach must accept to provide positive experiences for athletes in sport.

KIN 360 - Statistics in Kinesiology

3 Credit(s)

This course is designed to introduce students to statistical theories, data collection procedures, techniques for analysis and interpretation of data in Kinesiology.

KIN 380 - Diversity, Equity Sport, and Society

3 Credit(s)

This course has a two-fold purpose: first, it is designed to provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask questions and think critically about sport as a part of society. This course will explore issues around diversity, equity and inclusion in sport and society.

KIN 422 - Exercise Evaluation and Fitness Management

3 Credit(s)

This course is designed to familiarize students with the current methods used to determine levels of fitness in apparently healthy individuals, as well as individuals from special populations. Students will learn how to prescribe exercise for these individuals based on their fitness evaluation, basic training principles and other considerations. Students will be given the opportunity to test various individuals within specific testing parameters, and apply course knowledge to practical situations.

Prerequisite(s):

KIN 329L Minimum Grade: C- OR T

KIN 427 - Coaching Tech Strength / Conditioning

3 Credit(s)

This course is designed to provide information relative to the basic foundation of coaching sports conditioning including muscle physiology, bioenergetics, training methodology, exercise technique, program design, and facility

management. Students will be given the opportunity to develop a general strength coaching philosophy and to demonstrate their knowledge relative to proper lifting techniques demonstrate their knowledge relative to proper lifting and training procedures.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T

KIN 484 - Internship in Kinesiology

3 Credit(s)

This course provides kinesiology students with an opportunity to gain direct work experience in their chosen career field. All Internships in Kinesiology must follow the relevant procedures outlined in the syllabus to be recognized as an ASU internship and to be awarded ASU credit.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T

AND

KIN 422 Minimum Grade: C- OR T

- KIN XXX - Kinesiology Elective **3 Credit(s)**

Electives (22 Credits Required)

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 385 - Sports Marketing

3 Credit(s)

Illustrates the dynamic, progressive and influential nature of sports marketing. Explores the sport marketing concept as a consumer-driven, integrated, goal-oriented philosophy for a team, event, organization or athlete. Topics covered include: athletic endorsements, team sports, event sponsorships and alternative sports.

KIN 391 - Sport Ethics and Leadership

3 Credit(s)

This course explores the myriad of moral and ethical issues pertaining to athletes, sports, and sport organizations and how these apply to professionals in the field of sport management. The course will also explore leadership theories and philosophies. Current examples of ethical dilemmas in sport and sport management will be presented, and students will explore their personal ethics in relation to these issues.

KIN 429 - Advanced Exercise Physiology

3 Credit(s)

This course involves the advanced study of the various physiological systems involved in exercise, fitness and sport. The effects of exercise on these systems will be investigated. Practical application of exercise science knowledge and research to physical fitness and athletic performance will be emphasized.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T
AND

KIN 329L Minimum Grade: C- OR T

KIN 430 - Biomechanics

3 Credit(s)

This course will involve the study of the mechanical principles and factors that influence human movement. Students will develop an understanding of the biomechanical principles to human movement.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T
AND

KIN 329L Minimum Grade: C- OR T

AND

KIN 340 Minimum Grade: C- OR T

- or other courses as approved by an advisor

Bachelor of Science in Kinesiology, Sport and Recreation Management Emphasis

Go to: Department of Kinesiology

Core Requirements

KIN 100 - Foundations of Kinesiology

3 Credit(s)

This course serves as an overview of the historical, philosophical, ethical and sociological foundations of Kinesiology. This course will be delivered with a specific emphasis on exercise science, sport management, sport psychology, and coaching. Students also will study current issues, challenges and trends as they relate to professional careers and the administration of sport, fitness, and physical education. Embedded within this course is an introduction to the key Academic Program Goals of Kinesiology.

KIN 120 - Concepts in Wellness

3 Credit(s)

In this course, students will learn about the various dimensions of wellness, assess their own health status, and design interventions to improve personal health through lecture, video, laboratory experiences, and physical activities. This course will also provide students with the information necessary to make evidence-based decisions regarding personal wellness and to understand health disparities among diverse populations. There is a physical activity component to this course.

KIN 205 - Sports and Recreation Management

3 Credit(s)

The Sport and Recreation Management course is designed for students preparing for positions with sport and club teams, community recreation, intercollegiate and high school athletics programs, international sport organizations, national and international amateur sport organizations, or firms specializing in sport. The course is designed to emphasize fundamental knowledge in sport and recreation and will prepare students for various roles in the industry. Through lectures, readings, video, and classroom assignments students will gain an understanding of the sport and recreation industry and how to successfully manage and lead an organization.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

KIN 302 - Sport Psychology

3 Credit(s)

Sport psychology is primarily concerned with the interaction between psychological variables and participation in sport and exercise. This course will review this interaction by addressing variables that affect the individual athlete, influence sport and exercise environments, shape group processes, enhance health and wellbeing, improve performance, and facilitate psychological growth and development in sport participants from diverse populations.

KIN 350 - Methods of Coaching

3 Credit(s)

This course is intended to provide the foundations of coaching for a person who wants to coach at the youth, elementary, high school or college level. Through a series of discussions, readings, and other projects, the potential coach will gain the knowledge and skills required to be an effective coach. This course will address the many roles and duties a coach must accept to provide positive experiences for athletes in sport.

KIN 380 - Diversity, Equity Sport, and Society

3 Credit(s)

This course has a two-fold purpose: first, it is designed to provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask questions and think critically about sport as a part of society. This course will explore issues around diversity, equity and inclusion in sport and society.

KIN 391 - Sport Ethics and Leadership

3 Credit(s)

This course explores the myriad of moral and ethical issues pertaining to athletes, sports, and sport organizations and how these apply to professionals in the field of sport management. The course will also explore leadership theories and philosophies. Current examples of ethical dilemmas in sport and sport management will be presented, and students will explore their personal ethics in relation to these issues.

KIN 450 - Senior Capstone

3 Credit(s)

This course is designed as a culminating experience for Kinesiology majors. The focus of this High Impact Practice course will be on integrating prior knowledge, competencies, and experiences into practical applications and further professional development. Three main areas will be covered: service-learning, professional development, and personal reflection in relation to the student experience at Adams State.

Prerequisite(s):

Teacher Education Background Check Passed

KIN 484 - Internship in Kinesiology

3 Credit(s)

This course provides kinesiology students with an opportunity to gain direct work experience in their chosen career field. All Internships in Kinesiology must follow the relevant procedures outlined in the syllabus to be recognized as an ASU internship and to be awarded ASU credit.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T
AND

KIN 422 Minimum Grade: C- OR T

Sport and Recreation Management Emphasis

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic

financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 305 - Intermediate Accounting I

4 Credit(s)

The first of a two-course sequence of Intermediate Accounting designed to develop a framework for the role financial accounting plays in the world of business. A study of the conceptual basis of accounting will be conducted, creating a more in-depth understanding of the preparation and interpretation of financial statements and related information. This course will focus on the study of modern-day accounting theory and application of generally accepted accounting principles to various topics and financial statement elements. Students will be introduced to the U.S. Accounting Standards Codification and basic research tools.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 315 - Sales and Sales Management

3 Credit(s)

This course is designed to introduce students to management techniques as they relate specifically to the marketing and sales area. Topics covered include: the selling process, compensation systems, motivation and leadership, time and territory management, sales forecasting, quotas, and evaluating the sales force.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 385 - Sports Marketing

3 Credit(s)

Illustrates the dynamic, progressive and influential nature of sports marketing. Explores the sport marketing concept as a consumer-driven, integrated, goal-oriented philosophy for a team, event, organization or athlete. Topics covered include: athletic endorsements, team sports, event sponsorships and alternative sports.

HIST 350 - History of Sport in America

3 Credit(s)

This course covers the development of sports and their significance in American life from colonial period to present. It is designed both to supplement student's understanding of American History and to examine the role that sports have played in shaping contemporary society. Close attention will be paid to the context of sports development, especially

the economic and social environment. Topics will include a study of the role of industrial society in fostering sports, and the changing gender structure of sports.

KIN 210 - Sport Communication and Techniques

3 Credit(s)

This course introduces students to the main skills required for sports journalism and public relations, with particular emphasis on writing and public speaking. Students will learn about the historical development and cultural significance of sport and how those have shaped the business of sport. Students will also be introduced to technologies that impact on their abilities to write and disseminate stories and on how those technologies affect the character of messaging.

KIN 305 - Sport Facility Management

3 Credit(s)

This course introduces students to the discipline of facility management as they relate to the sport, recreation, and leisure industries. Key topics will include planning, designing, managing, scheduling, leading, and supervising sport facilities.

Prerequisite(s):

KIN 100 Minimum Grade: C- OR T
AND

BUS 103 Minimum Grade: C- OR T

KIN 390 - Risk Management

3 Credit(s)

This course explores the structure of the legal system, aspects of product liability, negligence, safety, and liability in the sport industry. Students will learn how to develop contracts designed to alleviate responsibility from a practitioner and/or organization from liability due to ordinary negligence. This course also includes discussions and practical applications for establishing a risk management system for facilities and sports programs.

Prerequisite(s):

KIN 120 Minimum Grade: C- OR T
AND

BUS 103 Minimum Grade: C- OR T

KIN 405 - Event Management

3 Credit(s)

This course focuses student attention on the processes of event management as they relate to the sport, recreation, and leisure industries. During this course, students will become familiar with the techniques and strategies needed to plan, organize, implement, and evaluate special sport and sport-related events. The end product of this High Impact Practice course will conclude with students organizing and executing a special event working with a community organization.

Prerequisite(s):

KIN 100 Minimum Grade: C- OR T

AND

BUS 103 Minimum Grade: C- OR T

KIN 415 - Funding Sports Organizations

3 Credit(s)

This course examines the methods by which sport organizations acquire funds in various settings (professional, amateur, non-profit). Economic implications for sports teams will be observed, as well as taxes, player contracts, and other financial challenges, concepts, and strategies within sport.

Prerequisite(s):

KIN 100 Minimum Grade: C- OR T

AND

BUS 103 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

OR

BUS 207 Minimum Grade: C- OR T

KIN 425 - Sport Law

3 Credit(s)

This course explores the structure of the legal system, aspects of constitutional law, labor and anti-trust law, tort law, product liability, contract law, administrative law, and statutory law applicable to the sport industry.

Prerequisite(s):

KIN 390 Minimum Grade: C- OR T

KIN 433 - International Perspectives of Sport Management

3 Credit(s)

This course will provide students with an understanding of the major concepts, trends, and critical issues in international sport management. Students will explore different international approaches to sport management which will involve comparing the policies, structure and governance of sport in various countries and identifying the challenges and good practices associated with different international approaches.

Prerequisite(s):

KIN 100 Minimum Grade: C- OR T

AND

BUS 103 Minimum Grade: C- OR T

18 Credits of Electives as Approved by Advisor

Bachelor of Science in Mechanical Engineering (Partnership with CSU)

Go to: Engineering and Computer Science

Earn a highly sought-after Colorado State University mechanical engineering bachelor's degree from the Adams State University campus in Alamosa, Colorado. Students in the San Luis Valley can stay close to home while learning from distinguished faculty of two universities, and benefit from access to CSU resources.

Adams State also offers an associate degree that is linked to the successful completion of the lower division courses. This is an excellent option for students interested in mechanical engineering but not yet ready to commit to a 4-year degree.

A total of 129 credits are required to complete the degree, specifically 78 lower division credits and 51 upper division credits.

12 credits of technical electives are required to graduate and will be offered face-to-face on the Adams State campus. For students with specific engineering interests, all existing 400-level technical elective courses that are taught via remote instruction are available to students who have a minimum 3.0 cumulative GPA.

Students completing the CSU-Adams State University Mechanical Engineering (ME) Partnership Program will receive a Bachelor of Science in Mechanical Engineering from CSU. All diplomas and transcripts for the degree will be from Colorado State University.

As per the requirements of the Accreditation Board for Engineering and Technology (ABET), the partnership program will apply for ABET accreditation once the first student graduates from this joint program (anticipated for Spring 2026). Given that the CSU Mechanical Engineering curriculum has been duplicated on the Adams State campus and all student learning outcomes of the partnership correspond to the CSU-Fort Collins ME program, we fully expect ABET will accredit the program once eligibility has been established.

Engineering Degree Requirements

First Year Seminar

FYS 101 - First Year Seminar

1 to 3 Credit(s)

First-year students launch into the Adams Experience through a First-Year Seminar (FYS) course. FYS will engage students by creating habits for success, learning to navigate college life, and build skills for success. Each FYS will focus on a unique topic that will be the theme of course discussions, experiences, and assignments. FYS will develop academic and social capital and support a successful transition into higher education, instill lifelong learning, and reinforce student persistence.

General Education Requirements for the Engineering Degree

Area I - Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18
OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T
OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II - Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and

readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T
AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III - Mathematics

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

Area IV - Social and Behavioral Sciences and History

One course designated as GT-SS1 (3 credits)

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

One course designated as GT-HI1 (3 credits)

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V - Natural and Physical Sciences

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

The Following Required Courses

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1**1 Credit(s)**

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

Total: 62 Credits

Note for the Associate of Science, Engineering Emphasis Degree

This Associates degree plan requires only 6 credits from General Education Area IV rather than the standard 9 credits and is an exception in that regard. This exception is necessary due to the external engineering accreditation requirements by ABET which results in a bachelor's degree of 129 credits rather than the usual Colorado maximum of 120 credits. Every engineering degree in the state of Colorado has a "general education waiver" from the common GT-Pathways curriculum requirements.

Bachelor of Science in Nursing (4-year degree program)

Go to: Nursing

- The B.S.N. degree is a four-year prelicensure degree program. Upon successful completion of the degree, students are eligible to take the R.N. license exam.
- Four-year B.S.N. undergraduate students typically apply for admission with the Nursing Department at the end of their first year and enter the B.S.N. program their sophomore year.

Complete the following Supporting/General Education Courses for Nursing with a Minimum Grade of C

Complete a First-Year Seminar Course

FYS 101 - First Year Seminar

1 to 3 Credit(s)

First-year students launch into the Adams Experience through a First-Year Seminar (FYS) course. FYS will engage students by creating habits for success, learning to navigate college life, and build skills for success. Each FYS will focus on a unique topic that will be the theme of course discussions, experiences, and assignments. FYS will develop academic and social capital and support a successful transition into higher education, instill lifelong learning, and reinforce student persistence.

Complete all Courses

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 205 - Human Anatomy and Physiology I

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The integumentary, skeletal, muscular, and nervous systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Test - Minimum Score: 3 **OR** MATH 97 Minimum Grade: S or S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T and SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18 **OR** ENG 96 Minimum Grade: S or T

BIOL 206 - Human Anatomy and Physiology II

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body.

Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The digestive, respiratory, circulatory, urinary, endocrine, and reproductive systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL 205 Minimum Grade: C- or T

OR

BIOL 210 Minimum Grade: C- or T

BIOL 215 - Microbiology for Health Sciences

4 Credit(s)

A lecture/laboratory course designed to fulfill requirements for pre-nursing and pre-pharmacy students as a practical introduction to microorganisms, especially bacteria and viruses, and their contribution to human health and disease. Laboratory exercises are designed to provide experience in handling microorganisms, bacterial identification, and other basic principles of microbiology. This course will not fulfill requirements for any of the biology degree tracks. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL-205 Minimum Grade: C- OR T

AND

CHEM-105 Minimum Grade: C- OR T

AND

CHEM-105L Minimum Grade: C- OR T

OR

CHEM-111 Minimum Grade: T OR C-

AND

CHEM-111L Minimum Grade: T OR C-

OR

BIOL-209 Minimum Grade: C- OR T

AND

BIOL-210 Minimum Grade: C- OR T

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will

not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18
OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T
OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills,

research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

PSYC 233 - Lifespan Dev for Nurses

3 Credit(s)

This is a foundational course for nursing students in human growth and development. The goal of this course is to examine the interaction of heredity and environment on biological, cognitive, and social development from conception to death.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

Complete 1 of the Following Statistics Courses

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T
OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

PSYC 211 - Introduction to Statistics Lecture/Lab

4 Credit(s)

In this course, students will develop a working appreciation of statistical concepts and applications as employed in the behavioral sciences. The course presents descriptive and inferential statistics and their applications. The laboratory component of this course gives students an opportunity to develop skills in using statistical software.

Prerequisite(s):

PSYC 101 Minimum Grade: C- or T

AND

MATH 97 Minimum Grade: S-A or S-B or S-C or T

OR

MATH 99 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 121 Minimum Grade: C- or T

OR

MATH 140 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Complete 1 of the following Arts and Humanities Courses (GT-AH1, GT-AH2, or GT-AH3)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Complete 1 of the following History Courses (GT-HI1)

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Complete 1 of the following Mathematics Courses (GT-MA1)

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T
OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

Completion of Required Nursing Courses

NURS 201 - Math for Nursing

1 Credit(s)

This course is designed to assist the student with becoming very comfortable with drug calculations using dimensional analysis. Topics to be discussed include: basic math review, metric system and medication calculations, reconstituted medications, parenteral medication calculations, reconstituted medications, parental medication calculations, oral and injectable calculations, and medications for infants and children. Student must be enrolled in the ASU four year baccalaureate program and successful completion of all previous level courses.

NURS 202 - Nursing Informatics

1 Credit(s)

This course examines the history of healthcare informatics, current issues, basic informatics concepts and health information management systems. The use of technology to help make decisions and to improve the health status of the individual, family, and community will be emphasized. Students will apply informatics concepts to a current clinical practice setting suggesting methods to use technology to improve patient safety and work effectiveness. The student will also learn to identify gather, process, and manage information/data. Student must be enrolled in the ASU four-year baccalaureate program and successful completion of all previous level courses.

NURS 206 - Pathophysiology

4 Credit(s)

This course provides an overview of pathophysiological processes across the major organ systems. It is divided into two content areas: general concepts and specific disease processes. General concepts include the topics of cellular environment, genetics, stress and disease, immunity, inflammation, and cellular proliferation. Common disease processes from the major organs systems are presented. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 207 - Health Assessment

3 Credit(s)

The course will focus on the theoretical and practical aspects of acquiring data through a client health history and physical examination through the life span. A laboratory portion will consist of demonstration and actual wellness assessment with identification of needs. Students will be responsible for independent clinical health assessments and case studies. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 208 - Pharmacology

4 Credit(s)

The course will provide an in-depth perspective of the pharmacokinetics and pharmacodynamics of medications. The students will learn to consider body weight, age, body composition, and circulatory dynamics when analyzing the drug's effect. Other topics to be included in this course include therapeutic effects, side effects, toxic effects, idiosyncratic reactions, drug tolerance, drug interactions and drug dose response. Discussion will focus on the physiological action and effect of selected drug groups, and factors that will influence the drug actions such as physiological variables, environmental conditions, psychological factors and diet. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 211 - Professional Practice

2 Credit(s)

This course will emphasize an in-depth exploration of the development of health care policy in the United States. The evolution of public and private healthcare insurance and the societal implications of these policies will be analyzed. Students will understand the U.S. healthcare delivery system to determine how social, political, legal, economic policy and regulatory factors affect health disparities. Access to healthcare for the American people will be addressed. Critical thinking skills will be developed to understand future trends and changes affecting healthcare delivery policy and nursing practice. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 309 - Nursing Fundamentals

6 Credit(s)

This course will focus on the nursing process as a strategy for making clinical judgments and implementing care. The student will learn basic concepts in nursing as a framework for future course work. An emphasis will be placed on critical thinking and evidence based application of concepts taught. The lab hours will focus on concepts learned and are the foundation for developing nursing skills. Practice will take place in both the classroom and the simulation lab. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 309C - Nursing Fundamentals Clinical

3 Credit(s)

This course focuses on concepts learned in Nursing Fundamentals and Nursing Fundamentals Lab as a strategy for making clinical judgments and implementing care. Practice will take place in both the actual clinical setting and the

simulation lab. The student will learn basic concepts in nursing as a framework for future course work. An emphasis will be placed on critical thinking and evidence based application of concepts taught. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 310 - Medical Surgical Nursing I

4 Credit(s)

Emphasis in this course is on the transition from student to the professional nursing role of the Baccalaureate prepared nurse. This course is a comprehensive study of concepts related to critical thinking, culture, pain and end of life issues. Also considered is substance abuse, fluid, electrolyte and acid-base balance, safety, oxygenation, tissue perfusion, cardiac output. The various interrelationships among systems are highlighted. The application of the nursing process and evidence based criteria will be used in the care of stable adult patients in a clinical setting. The lab hours will focus on concepts learned and are the foundation for developing advanced nursing skills. Practice will take place in both the classroom and the simulation lab. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 310C - Medical / Surgical Nursing I Clinical

4 Credit(s)

Emphasis in this course is on the transition from student to the professional nursing role of the Baccalaureate prepared nurse. This course focuses on concepts learned in Medical Surgical Nursing I as a strategy for making clinical judgments and implementing care. Practice will take place in both the actual clinical setting and the simulation lab. The student will learn basic concepts in nursing as a framework for future course work. An emphasis will be placed on critical thinking and evidence based application of concepts taught. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 311 - Care of the Older Adult

2 Credit(s)

This course will consider the unique set of principles and body of knowledge and skills necessary to care for the older adult. Students are provided with the theoretical background necessary to understand health system issues affecting older adults; comprehensive assessment of physical, functional, psychosocial, and cognitive capacities; and to consider, in detail, common problems associated with cardiovascular, respiratory, neurological, musculoskeletal, sensory, and genitourinary systems that affect older adults. In addition, principles of continuity of care, rehabilitation, nutritional and pharmacodynamic changes, diversity and ethics will be integrated throughout the course. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 314 - Health Care Ethics

2 Credit(s)

This course will focus on the moral and ethical dimensions of nursing practice and in health care today. Topics to be explored include biomedical technological advances, quality of life, and ethical theories and principles, client advocacy, skill competency, informed consents, advanced directives and nursing accountability. The students will also discuss how values, emotions, faith, spiritual beliefs influence ethical decision-making. The law, culture, gender, generational issues, as well as male and female roles are considered in the setting of an ethical dilemma. A systematic approach to resolving ethical issues and the role of an Ethics Committee as a resource are presented. Discussion will also take place regarding the Nursing Code of Ethics and its effect on nursing practice. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 315 - Rural/Community Health

2 Credit(s)

This course examines the role of the nurse in promoting the health of aggregates, families, and individuals. The concept of community as client is emphasized. The core public health functions of assessment, policy development, and assurance are explored through student involvement in the legislative process, family assessment, community assessment, case management, health teaching, and the investigation of communicable diseases. The provision of nursing care in a rural setting will also be examined.

NURS 315C - Rural / Community Health Clinical

2 Credit(s)

This course will allow students to address the concerns and health needs of the community. In a collaborative effort between the community and ASU, the students will apply knowledge gained through nursing academic coursework to implement a plan for those health concerns. Emphasis will be placed on developing interpersonal skills and achieving social changes that influence health and quality of life. The course includes an extensive clinical practicum within a public health setting with emphasis on nursing in a rural community.

NURS 316 - Nursing Research

2 Credit(s)

This course will provide an introduction to the research process including design and methodology. Interpretation and critique of research findings for use in nursing practice are emphasized. Research questions relevant to clinical practice are identified. This course emphasizes critical analysis of existing research to support data-driven decisions and implementation of evidence-based practice. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 407 - Obstetric Nursing

3 Credit(s)

This course will provide a family-centered approach to professional nursing practice of the childbearing family from pre-conception through postpartum including newborn care. Nursing care of the woman throughout the lifespan will be presented. The impact of psychosocial and cultural values and practices will be explored. Legal and ethical accountability will be integrated throughout the course. The learner will develop specific cognitive and psychomotor competencies which will be demonstrated in an effective performance in both a skills/simulation lab and clinical area. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 407C - Obstetric Nursing Clinical

2 Credit(s)

Emphasis in this course will be on the transition from student to the professional nursing role of the Baccalaureate prepared nurse. This course is the application of skills related to caring for obstetrical and gynecological patients. Critical thinking skills will be learned and applied to visualizing complex problems and interrelationships found in the care of obstetrical and gynecological patients in a clinical setting. The application of the nursing process and evidence

based criteria will be used in this process. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 408C - Pediatric Nursing Clinical

2 Credit(s)

This course will apply skills related to caring for pediatric patients across the health continuum. Critical thinking skills will be learned and applied to complex problems and interrelationships found in the care of pediatric patients in the clinical setting. The application of nursing process and evidence based criteria will be used in this process. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 409 - Psychiatric Nursing

2 Credit(s)

The student will explore concepts in promoting and maintaining mental health in the individual, family, group and the community. Mental health assessment, health promotion and roles and responsibilities within the profession of psychiatric nursing will be introduced. This course emphasizes communication and caring through the application of communication skills, the therapeutic relationship and nursing process in the care and treatment of common clinical conditions/disorders in the realm of mental health nursing. The interconnection of medical and mental health symptoms will be addressed. Health care trends related to primary health care, determinants of health and wellness are examined. Concepts of crisis, comfort, anger, hope, loss, power, resiliency and integrity will be introduced. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 409C - Psychiatric Nursing Clinical

2 Credit(s)

This course will allow the student to apply the various concepts learned in NURS-409 and other nursing courses to patients in both acute psychiatric settings and various community settings. Students will incorporate critical thinking, the nursing process and evidence based guidelines for the care of the psychiatric patient. Health and safety needs within the psychiatric setting will be explored. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 414C - Nursing Internship

6 Credit(s)

This course will be an integration of previous nursing and general education coursework. This course will include an intensive content exam review and field experience in an area of nursing interest to the student and comprehensive simulation lab experiences at the end of the course. Critical thinking and evidence based practice will be emphasized and evaluated through theory course content review tests and in the clinical environment by a preceptor. In addition, the simulation environment may be used as a part of evaluation. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 415 - Nursing Management

3 Credit(s)

The focus of this course will be on the theories of nursing management and leadership and their application to work practices. Content will include the basic functions of management: planning, organizing, and directing. Topics such as decision-making, change, budgeting, conflict resolution and personnel issues will be explored. The students will concentrate on critical decision making and formulating independent nursing judgments in complex nursing situations. Content will also focus on supervisory skills and collaboration with other members of the health care team in the structured (hospital or nursing home) or unstructured (community assessments) health care settings. Students must be enrolled in the ASU four year baccalaureate nursing program and successfully complete all previous level courses.

NURS 415C - Nursing Management Clinical

2 Credit(s)

Application of nursing leadership and management principles learned in NURS-415 will be the focus of this course. Application of concepts learned take place in the clinical setting. Critical thinking and evidence based practice will be emphasized.

NURS 416 - Medical Surgical Nursing II

4 Credit(s)

This course is a comprehensive study of concepts related to problems of the cardiovascular, peripheral vascular, respiratory, hematological, and endocrine systems. Various interrelationships of these concepts will be explored as it concerns stable and unstable adult patients. The application of the nursing process and evidence based criteria will be presented as these processes refer to the care of adult patients. The lab hours will focus on concepts learned and are the foundation for developing advanced nursing skills. Practice will take place both in the classroom and the simulation lab.

NURS 416C - Medical /Surgical Nursing II Clinical

4 Credit(s)

In this course, concepts related to problems of the cardiovascular, peripheral vascular, respiratory, hematological, and endocrine systems will be explored. The various interrelationships among these concepts found in both stable and unstable adult patients in a clinical setting will be emphasized. The application of the nursing process and evidence based criteria will be used in the care of adult patients in both a clinical setting and a simulation lab.

NURS 417A - Service Learning A

0.5 Credit(s)

The Service Learning project will provide the student with a unique opportunity to further develop the nursing role as a responsible and caring professional. In providing service to an agency or aggregate of clients, the ASU nursing student will apply and integrate concepts learned from previous coursework in the arts, sciences, humanities, and nursing in meaningful ways. The Service Learning project will enhance the ASU Nursing Program mission with its focus on cultural diversity, community service, and rural health care. This course introduces the student to community collaboration and selection of a service project.

NURS 417B - Service Learning B

0.5 Credit(s)

The Service Learning project will provide the student with a unique opportunity to further develop the nursing role as a responsible and caring professional. In providing service to an agency or aggregate of clients, the ASU nursing student will apply and integrate concepts learned from previous coursework in the arts, sciences, humanities, and nursing in meaningful ways. The Service Learning project will enhance the ASU Nursing Program mission with its focus on cultural diversity, community service, and rural health care. This course is an ongoing course from NURS 417A. This course will continue the project development established in NURS 417A. The student will research the importance and effectiveness of project selected in the identified community/agency.

Prerequisite(s):

NURS 417A Minimum Grade: C

NURS 417C - Service Learning C

1 Credit(s)

The Service Learning project will provide the student with a unique opportunity to further develop the nursing role as a responsible and caring professional. In providing service to an agency or aggregate of clients, the ASU nursing student will apply and integrate concepts learned from previous coursework in the arts, sciences, humanities, and nursing in meaningful ways. The Service Learning project will enhance the ASU Nursing Program mission with its focus on cultural diversity, community service, and rural health care. The student will use research and supportive evidence gathered in NURS 417B to implement the selected service project. The result of this project will result in a sustained impact for the selected agency or community. In addition, the student will provide a reflection of this experience from project identification, research, development and implementation.

Prerequisite(s):

NURS 417A Minimum Grade: C

AND

NURS 417B Minimum Grade: C

Master of Arts in Counseling, Clinical Mental Health Counseling Emphasis

- Go to: Counseling and Counselor Education

Master of Arts in Counseling

The Master of Arts in Counseling is offered in an online delivery modality. This program is designed to meet the educational needs of those students who are not within driving distance of a counseling program or whose work schedule will not allow physical attendance. The online program offers the same course content as the other accredited programs Adams State University offers, only in an online format. Students in the online program will spend one week on the Adams State campus during the two consecutive weeks in the program. During these weeks, students will interact with the faculty on campus and further develop their counseling and interpersonal skills, form learning groups, become acquainted with the program and its expectations, and receive tutoring, advising, and intensive supervision.

Core Requirements for the Master of Arts in Counseling

The degree programs in school and clinical mental health counseling require a minimum of 60 semester hours as described below. However, the order of the course offering is subject to change.

COUN 503 - Introduction to Research

3 Credit(s)

An introductory course to help students develop an understanding of the importance of research; overview basic elements of quantitative, qualitative, and action research ;methods, enhance skills to evaluate and critique research and literature; and gain an appreciation for conducting research.

COUN 515 - Multicultural and Diversity Issues

3 Credit(s)

This course is designed to assist students in understanding the impact of social/cultural forces upon identity development and formation. Students will explore various components of our pluralistic society and how oppressive systems can exclude and harm individuals. Change theory and advocacy principles will be introduced to aid students in dealing with these issues in their communities and with clients.

COUN 517 - Life Span Development

3 Credit(s)

This course is designed to provide an understanding of major influences of human development. Presentation of various developmental theories enable the student to understand the stages of the developmental process that include conception, childhood, adolescence, adulthood, aging process, and death and dying. Students will develop an appreciation and awareness of the complexity of human growth and development.

COUN 524 - Counseling Theories and Helping Relationships

3 Credit(s)

This course presents the major schools of thought influencing the practice of counseling. The relationship of philosophy, theory, and practice will be a primary focus. Students will understand the historical foundations of counseling and the beginnings of their own personal foundation of counseling.

COUN 527 - Group Counseling

3 Credit(s)

This course explores leadership styles, group dynamics, and group process necessary to run successful groups. The major group counseling theories will be explored, and group skills will be practiced. The course requires that students gain experience as both a growth group participant and as a co-leader.

Co-requisite(s): COUN 527L

COUN 527L - Group Counseling Lab

0 Credit(s)

Students are required to take COUN-527L Group Counseling Lab along with their COUN 527 course. The COUN-527L to engage in personal and professional growth as a group counselor in training while demonstrating self-awareness and professional behaviors required of counselors in training specifically in leading and engaging in Group

activities. Students will experience the group process as both a group member and group leader while receiving individual/group supervision from program faculty.

Co-requisite(s): COUN 527

COUN 528 - Career Development

3 Credit(s)

This course provides students an understanding of the career planning process. Key career development theories will be examined and applied. The counseling process, the world of work, and career information resources, including computerized career assessment, will be examined in relation to career interventions.

COUN 530 - Couples/Family/Systems

3 Credit(s)

This course provides counseling students with the theoretical background and therapeutic skills necessary for therapeutic intervention in families, couples, and systems. Students will examine systems theory as it relates to families and couples and develop knowledge and skill pertaining to family-of-origin issues, addictions, parenting, and professional consultation.

COUN 536 - Pre-Practicum

3 Credit(s)

This course provides students an introduction to the counseling profession and helping relationships. The course will emphasize personal growth, self-awareness, and professional behavior. Students will experience the helping relationship as both client and counselor.

Co-requisite(s): COUN 536L

COUN 536L - Pre-Practicum Lab

0 Credit(s)

Students are required to take COUN-536L Pre-Practicum Lab along with their COUN 536 course. The COUN-536L is to engage in personal and professional growth as a counselor in training while demonstrating self-awareness and professional behaviors required of counselors in training. Students will experience the helping relationship as both client and counselor and receive individual/group supervision from program faculty.

Co-requisite(s): COUN 536

COUN 537 - Practicum

3 Credit(s)

Practicum is a clinical, experiential course that requires students to complete hours in a professional setting. The student will apply counseling techniques and skills in a supervised setting. The student will participate in the counseling process, refine techniques, and further enhance his/her therapeutic development.

Co-requisite(s): COUN 537L

COUN 537L - Practicum Lab

0 Credit(s)

Students are required to take COUN-537L Practicum Lab along with their COUN 537 course. The COUN-537L is to engage in personal and professional growth as a counselor in training while demonstrating self-awareness and professional behaviors required of counselors in training. Students will experience the helping relationship as both client and counselor and receive individual/group supervision from program faculty.

Co-requisite(s): COUN 537

COUN 538 - Crisis, Disaster, and Trauma

3 Credit(s)

This course focuses on knowledge of the many types of intervention used to address a range of crises. We will explore definitions of crisis, crisis theory, and models applied to specific crisis situations. The characteristics of effective crisis workers will be examined. Emergency services, school crisis teams, crisis hotlines, and other crisis response units will be discussed. Various activities will be used to practice the skills learned.

COUN 546 - Assessment in Counseling

3 Credit(s)

This course provides students with an understanding of individual and group approaches to assessment and evaluation. Students will learn various assessment and appraisal techniques with emphasis on multicultural and diversity, ethical, and legal issues.

COUN 549 - Foundations Addict Counseling

3 Credit(s)

This course provides counselors in training with an overview of the addictive process and the practice of addiction counseling. Models and theories of addiction along with professional issues in addiction counseling, co-occurring disorders, such as process addictions will be addressed. Students will demonstrate conceptual knowledge, practical skills, and self-awareness concerning the etiology of addiction and its impact across the life-span, including criminology, neurological and societal implications. Assessment, diagnosis, and treatment of addictions with diversity and advocacy issues also being explored.

COUN 550 - Ethics and Professional Issues

3 Credit(s)

This course focuses on the ethical standards that govern the counseling profession. Current legislation and court decisions affecting professional behavior are examined. Particular emphasis is placed on the individual counselor's development of a professional identity within legal and ethical parameters.

Completion of the Requirements for the Clinical Mental Health Counseling Emphasis

COUN 542 - Diagnosis and Psychopathology

3 Credit(s)

The evolution of the DSM, its organization, and use will be explored. The student will develop an understanding of the process of diagnosis and the classification of mental disorders. The etiology and treatment of psychological disorders will be reviewed. Clinical writing skills will be practiced.

COUN 554 - Counseling Modalities for Clinical Mental Health

3 Credit(s)

This course focuses on applying the skills, interventions and modalities learned in the counseling courses to the Clinical Mental Health setting. Emphasis will be on learning to use evidence-based practices, working with clients with co-occurring diagnoses, and collaborating with multi-disciplinary teams.

COUN 555 - Clinical Mental Health Counseling

3 Credit(s)

This course focuses on issues in clinical mental health counseling including professionalism, roles and responsibilities, leadership, and management issues. The roles, responsibilities, and functions of the clinical mental health counselor will be discussed, showing the interrelatedness of community mental health counseling and other therapeutic professions (e.g., hospitals, law enforcement, and human services). In addition, the theoretical and historical framework within which the clinical mental health counselor has functioned in the past, the present, and the future will be explored.

COUN 585 - Internship I Clinical Mental Health

3 Credit(s)

Students will utilize knowledge and skills gained in coursework and the practicum experience in a supervised counseling setting. Students will receive supervision, increase knowledge of the profession, increase skill base, and continue the process of self-exploration, and self-awareness.

Prerequisite(s):

COUN 537 Minimum Grade: B

AND

COUN 555 Minimum Grade: C

COUN 595 - Internship II Clinical Mental Health

3 Credit(s)

A continuation of Internship I, students will complete their supervised on-site experience, expand their acquired skills, and receive further supervision.

Prerequisite(s):

COUN 585 Minimum Grade: C

Plus 6 Elective Credits**Master of Arts in Counseling, School Counseling Emphasis**

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COUN 515 - Multicultural and Diversity Issues**3 Credit(s)**

This course is designed to assist students in understanding the impact of social/cultural forces upon identity development and formation. Students will explore various components of our pluralistic society and how oppressive systems can exclude and harm individuals. Change theory and advocacy principles will be introduced to aid students in dealing with these issues in their communities and with clients.

COUN 517 - Life Span Development**3 Credit(s)**

This course is designed to provide an understanding of major influences of human development. Presentation of various developmental theories enable the student to understand the stages of the developmental process that include

conception, childhood, adolescence, adulthood, aging process, and death and dying. Students will develop an appreciation and awareness of the complexity of human growth and development.

COUN 524 - Counseling Theories and Helping Relationships

3 Credit(s)

This course presents the major schools of thought influencing the practice of counseling. The relationship of philosophy, theory, and practice will be a primary focus. Students will understand the historical foundations of counseling and the beginnings of their own personal foundation of counseling.

COUN 527 - Group Counseling

3 Credit(s)

This course explores leadership styles, group dynamics, and group process necessary to run successful groups. The major group counseling theories will be explored, and group skills will be practiced. The course requires that students gain experience as both a growth group participant and as a co-leader.

Co-requisite(s): COUN 527L

COUN 527L - Group Counseling Lab

0 Credit(s)

Students are required to take COUN-527L Group Counseling Lab along with their COUN 527 course. The COUN-527L to engage in personal and professional growth as a group counselor in training while demonstrating self-awareness and professional behaviors required of counselors in training specifically in leading and engaging in Group activities. Students will experience the group process as both a group member and group leader while receiving individual/group supervision from program faculty.

Co-requisite(s): COUN 527

COUN 528 - Career Development

3 Credit(s)

This course provides students an understanding of the career planning process. Key career development theories will be examined and applied. The counseling process, the world of work, and career information resources, including computerized career assessment, will be examined in relation to career interventions.

COUN 530 - Couples/Family/Systems

3 Credit(s)

This course provides counseling students with the theoretical background and therapeutic skills necessary for therapeutic intervention in families, couples, and systems. Students will examine systems theory as it relates to families and couples and develop knowledge and skill pertaining to family-of-origin issues, addictions, parenting, and professional consultation.

COUN 536 - Pre-Practicum

3 Credit(s)

This course provides students an introduction to the counseling profession and helping relationships. The course will emphasize personal growth, self-awareness, and professional behavior. Students will experience the helping relationship as both client and counselor.

Co-requisite(s): COUN 536L

COUN 536L - Pre-Practicum Lab

0 Credit(s)

Students are required to take COUN-536L Pre-Practicum Lab along with their COUN 536 course. The COUN-536L is to engage in personal and professional growth as a counselor in training while demonstrating self-awareness and professional behaviors required of counselors in training. Students will experience the helping relationship as both client and counselor and receive individual/group supervision from program faculty.

Co-requisite(s): COUN 536

COUN 537 - Practicum

3 Credit(s)

Practicum is a clinical, experiential course that requires students to complete hours in a professional setting. The student will apply counseling techniques and skills in a supervised setting. The student will participate in the counseling process, refine techniques, and further enhance his/her therapeutic development.

Co-requisite(s): COUN 537L

COUN 537L - Practicum Lab

0 Credit(s)

Students are required to take COUN-537L Practicum Lab along with their COUN 537 course. The COUN-537L is to engage in personal and professional growth as a counselor in training while demonstrating self-awareness and professional behaviors required of counselors in training. Students will experience the helping relationship as both client and counselor and receive individual/group supervision from program faculty.

Co-requisite(s): COUN 537

COUN 538 - Crisis, Disaster, and Trauma

3 Credit(s)

This course focuses on knowledge of the many types of intervention used to address a range of crises. We will explore definitions of crisis, crisis theory, and models applied to specific crisis situations. The characteristics of effective crisis workers will be examined. Emergency services, school crisis teams, crisis hotlines, and other crisis response units will be discussed. Various activities will be used to practice the skills learned.

COUN 546 - Assessment in Counseling

3 Credit(s)

This course provides students with an understanding of individual and group approaches to assessment and evaluation. Students will learn various assessment and appraisal techniques with emphasis on multicultural and diversity, ethical, and legal issues.

COUN 549 - Foundations Addict Counseling

3 Credit(s)

This course provides counselors in training with an overview of the addictive process and the practice of addiction counseling. Models and theories of addiction along with professional issues in addiction counseling, co-occurring disorders, such as process addictions will be addressed. Students will demonstrate conceptual knowledge, practical skills, and self-awareness concerning the etiology of addiction and its impact across the life-span, including criminology, neurological and societal implications. Assessment, diagnosis, and treatment of addictions with diversity and advocacy issues also being explored.

COUN 550 - Ethics and Professional Issues

3 Credit(s)

This course focuses on the ethical standards that govern the counseling profession. Current legislation and court decisions affecting professional behavior are examined. Particular emphasis is placed on the individual counselor's development of a professional identity within legal and ethical parameters.

Completion of requirements for the School Counseling Emphasis

COUN 534 - Counseling Modalities in a School Setting

3 Credit(s)

This course focuses on applying the skills interventions and modalities learned in the counseling courses to the school setting. Emphasis will be on learning to use evidence-based practices to help K-12 students function more effectively in the academic, personal/social, and career domains.

COUN 540 - Foundations of School Counseling

3 Credit(s)

This course provides an introduction to professional school counseling, including historical perspectives, theory, practice, employment settings, credentialing, legislation, research, and ethical considerations.

COUN 541 - Comprehensive School Counseling

3 Credit(s)

This course offers an in-depth exploration of current professional school counseling. Students will understand the skills needed in counseling, consulting, advocacy, and collaboration to promote academic success for all students. The course offers a comprehensive approach to a school counseling program. Students will learn the mechanism with which school counselors and school counseling teams design, coordinate, implement, manage and evaluate their programs for student

success.

Prerequisite(s):

COUN 540 Minimum Grade: C

COUN 551 - Professional School Counseling Issues

3 Credit(s)

This course will focus on the day-to-day life of the school counselor and current trends in school counseling. Specifically, students will gain an understanding of the counselor as educational leader, working with parents and the community, diversity in schools, serving specific populations, crises/threat assessment, technology, career advisement, and ethical and legal issues.

COUN 586 - Internship I School Counseling

3 Credit(s)

Students will utilize knowledge and skills gained in coursework and the practicum experience in a supervised counseling setting. Students will receive supervision, increase knowledge of the profession, increase skill base, and continue the process of self-exploration and self-awareness.

Prerequisite(s):

COUN 537 Minimum Grade: B-

COUN 596 - Internship II- School Counseling

3 Credit(s)

A continuation of Internship I, students will complete their supervised on-site experience, expand their acquired skills, and receive further supervision.

Plus 3 elective credits

Master of Arts in Cultural Resource Management

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

The goals of the Cultural Resources Management program are to satisfy students' desires for directed study leading to a master's degree in Cultural Resource Management (prehistoric or historical focus), preparing them for advancement in that field or for going on to doctoral studies. All professors of CRM classes in this program have field experience in cultural resource management as archaeologists and/or administrators. They are committed to developing and encouraging students to achieve their academic potential. The degree is delivered through semester based, interactive, Internet courses.

Degree Requirements

Required Core

CRM 500 - Philosophy, Laws, and Standards

3 Credit(s)

This is the introductory course for Cultural Resource Management. It covers the history and philosophy of CRM, the heritage preservation laws that created and govern the field, and current standards and practices of the field.

CRM 510 - Research Methods

3 Credit(s)

This course serves as an introduction to the wide variety of technologies and techniques used in CRM. It will delve into pre-field, field, and post-fieldwork methods as related to developing a research design. Some technologies covered may include: Office Suite, GIS, LiDAR, compositional analysis, and dating techniques. Specific techniques will be adjusted to each student's previous background and technological expertise.

CRM 520 - Report Writing

3 Credit(s)

Central to all good archaeology is the writing of reports. This is especially true in cultural resource management, but these reports have unique requirements. They must meet professional standards, the standards of the agencies responsible for the resources, and they must be written in a way that is understandable to the project sponsors. This course will prepare students to produce well-written reports and correspondence for this profession.

CRM 571 - Archaeological Theory

3 Credit(s)

This is an online course which will cover the central theories that have driven the field of archaeology.

CRM 580 - Internship

3 Credit(s)

This is a practicum in cultural resource management during which the student will work on one or more actual CRM projects at least at the level of assistant project director. The work will be carried out in conjunction with a recognized CRM firm or a land managing agency.

CRM 591 - Thesis

3 Credit(s)

Students work through the research design, organization, and background material that will become their master's thesis. This will include a clear and decisive research question, a brief proposal, a hypothesis, and structural outline, all of which serve as guides in the organization of your thesis. Drafts of a culture history, environmental background and methods sections for the thesis are developed in conjunction with the committee chair.

Grade Mode: Pass/Fail

Prerequisite(s):

Approval of CRM advisor and/or course instructor. CRM 570 is recommended to prepare for this class, but not required.

CRM 592 - Continuing Thesis

1 to 6 Credit(s)

This course is required each fall and spring semester after the student has taken CRM 591 (Thesis) and until successful defense of the thesis.

Grade Mode: Pass/Fail

Context and Content

Complete 12 credits from the following courses selected in consultation with your advisor

ANTH 539 - Archaeology Field School

1 to 6 Credit(s)

Through actual field experience, the student will learn basic techniques of site identification and recording, excavation, and artifact processing and analysis. In addition, they will learn instruments surveying and introductory applications of geographic information systems. The skills taught will be appropriate for either prehistoric or historic sites.

ANTH 579 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

ANTH 592 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

ANTH 599 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Chair.

CRM 530 - Pre-Contact North America

3 Credit(s)

This course is a survey of North American archaeology prior to European contact. Various periods and themes are explored, focusing on the current debates in the field of archaeology and CRM.

CRM 531 - Post-Contact North America

3 Credit(s)

This course is a survey of North American archaeology after European contact. Various periods and themes are explored, focusing on the current debates in the field of archaeology and CRM.

CRM 560 - Applied GIS/CRM Professionals

3 Credit(s)

This course will introduce students to real world applications of Geographical Information Systems (GIS) as it is used in the Cultural Resource Management (CRM) field. Students will learn from applied examples about the critical thinking needed in cartography, digital data management, spatial data collection, resource management, statistical analysis, and visual learning.

CRM 561 - Geoarchaeology

3 Credit(s)

This online course is an introduction to geoarchaeology and the application of the geosciences to archaeological questions and research. This includes topics such as sedimentology, geomorphology, pedology, paleoenvironmental and paleoclimate reconstruction, geochemical provenance studies, Quaternary dating methods, and site formation processes.

CRM 570 - Selected Readings in CRM

3 Credit(s)

This course permits the student to work with an instructor to develop a syllabus of readings on a topic of the student and instructors choice that is not otherwise offered through the institution.

CRM 579 - Special Topics

1 to 6 Credit(s)

This course will be developed by the instructor on topics of interest to the students in the CRM Master's Program that are not otherwise offered in the degree plan.

CRM 580 - Internship

3 Credit(s)

This is a practicum in cultural resource management during which the student will work on one or more actual CRM projects at least at the level of assistant project director. The work will be carried out in conjunction with a recognized CRM firm or a land managing agency.

OR

CRM 581 - Previous Archaeological Experience

3 Credit(s)

This course permits students to receive credit for prior professional employment and/or archaeological research.

Prerequisite(s):

Previous archaeological, museums, historic preservation, or other relevant field experience for a degree in cultural resource management.

Grade Mode: Pass/Fail

CRM 599 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Head.

HIST 501 - State History

3 Credit(s)

A graduate-level survey of the history of a particular state, with emphasis on how meta and national phenomenon impacted a given state, as well as events and phenomena unique to the state.

HIST 505 - American West

3 Credit(s)

This course is a survey of the American West with an emphasis on interpretation by historians. Admission to the Master of Arts program is required.

HIST 520 - Topics in World History

3 Credit(s)

This course will involve intensive reading, analysis, and discussion of selected topics/controversies in world history.

HIST 546 - Borderlands

3 Credit(s)

This course explores borderlands as a site of historical scholarship with special emphasis on the southwestern United States and the United States-Mexico border.

HIST 551 - Atlantic History

3 Credit(s)

This course explores the Atlantic world as a field of historical scholarship with a special focus on European colonization of the Americas, African slavery, and the Age of Revolutions.

HIST 563 - Civil War and Reconstruction

3 Credit(s)

A graduate-level study of the antebellum South, sectional discord, armed conflict, and reconstruction of the Union.

HIST 579 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

Master of Arts in Education, Culturally and Linguistically Diverse (CLD) Endorsement

Go to: Educational Preparation

The five-semester Master of Arts in Education with a Culturally and Linguistically Diverse (CLD) endorsement focuses on the development of sound multicultural teaching competencies and educational leadership for service in schools.

Total degree hours: 33 Credits

Academic Core Requirements for MA Candidates only

ED 507 - Integrated Instruction & Assessment

3 Credit(s)

This course supports candidates in aligning their beliefs and values to develop their teaching identity. Metacognitive processes will help candidates be aware of their own motives and empower them to actively participate in their own learning as they begin to develop their art of teaching. Candidates will design a sequence or unit of study following the Understanding by Design framework which includes digging deeper into formative and summative assessments and

interpreting assessment data to teach responsively. Alternative methods of facilitating instruction and assessing student performance and understanding will be investigated and implemented to increase the candidate's understanding of their students' abilities, interests, and needs. Candidate's will also discover strategies for fostering successful community partnerships.

ED 534 - Multicultural Perspectives

3 Credit(s)

This course provides students with an overview of the role of cultural diversity in the classroom and its effect on teaching and learning. While exploring issues of race, class, culture, and power, students will develop a deeper understanding of school demographics, perspectives on teaching and learning and the interaction between pedagogy and culture. Students will gain an understanding about the effects of different social, cultural, linguistic, and cognitive experiences on learner development, the impact this can have on their choices as teachers and leaders.

ED 557 - Research Methods

3 Credit(s)

Research methods is designed to provide candidates in the program with background knowledge of quantitative and qualitative research methods. The course will help candidates evaluate the appropriateness of each method when designing a research project. Candidates will develop mini- proposals for each type of research in preparation for implementing and reporting on their own research project.

Cognate Requirements (24 Credits)

CLD 501 - Introduction to the Study of Language

3 Credit(s)

This course provides prospective teachers with an overview of the study of language and how it works. It is an introduction to the scientific study of language and linguistics. The course provides for examination of relevant theories of language and how language is acquired as well as cognitive, societal and cultural considerations affecting its use. Specific topics to be examined include: the structure of languages, grammatical constructs (e.g., morphology, syntax, semantics, phonetics, phonology, and discourse), the interactions between language use and social structures, and the representation of language in the brain. Instructional applications will be considered. The course presupposes no formal study or knowledge of language/ linguistics.

Prerequisite(s):

Admission to the Graduate School

CLD 502 - Language and Culture

3 Credit(s)

This course explores the peculiar relationship between language and the cultural total of which the language is a part,

including the connection between cultural identity and heritage language. It examines language variations within a community according to gender, age, geography, ethnicity, socioeconomic class and level of education. Specifically, the course deals with the linguistic factors characterizing differences in language and with the social and social-psychological variables associated with these differences. Attention is given to the different varieties of language within a speech community (e.g., dialect, register, and style) and the societal and cultural factors that define their use. Course content considers the educational, political and economic implications. The course presupposes no formal study or knowledge of language/ linguistics.

Accordingly, the course focuses on the different ways people speak. It deals with the linguistic factors characterizing differences in language and with the social and social-psychological variables associated with these differences. Thus, having completed the course, students should (a) be aware of the different linguistic choices available to speakers in different social/ cultural contexts, (b) have an understanding of the factors which influence the choosing of one variety over another and the societal implications of such choices, (c) gain an appreciation for language diversity and cultural pluralism and, for those in teacher education programs, and, for education majors, (d) be able to demonstrate ability to identify and adapt instructional applications that are responsive to learners from different cultural backgrounds.

Prerequisite(s):

Admission to the Graduate School

CLD 503 - Second Language Acquisition

3 Credit(s)

Introduction to second language acquisition (SLA) theory and the application of SLA theory to second/foreign language teaching practices. Explores what it means to know a language and, hence, how one learns/ acquires a second language. The emphasis in the course is to provide an opportunity to become familiar with up-to-date major theories of language acquisition (e.g., linguistic, psychological, sociological, etc.). That is, what happens in the mind of L1 learners and expand to 2L learners. This is not a methodology course, though certain methods and approaches will be discussed as they are direct applications of 2L theories. Instead, students will be exposed to what research data show about the complex process of learning a second language, and to teach them how to rely on these data to understand a number of major models (theories) of 2LL and, as a result, be able to use this knowledge to evaluate different methods, materials and assessments for 2LL/CLD Introduction to second language acquisition (SLA) theory and the application of SLA theory to second/foreign language teaching practices. Explores what it means to know a language and, hence, how one learns/ acquires a second language. The emphasis in the course is to provide an opportunity to become familiar with up-to-date major theories of language acquisition (e.g., linguistic, psychological, sociological, etc.). That is, what happens in the mind of L1 learners and expand to 2L learners. This is not a methodology course, though certain methods and approaches will be discussed as they are direct applications of 2L theories. Instead, students will be exposed to what research data show about the complex process of learning a second language, and to teach them how to rely on these data to understand a number of major models (theories) of 2LL and, as a result, be able to use this knowledge to evaluate different methods, materials and assessments for 2LL/CLD populations. The course presupposes no formal study or knowledge of language/ linguistics. As part of the course content, we will seek to foster cultural sensitivity to the diverse student population becoming increasingly prevalent in classrooms in the U.S. We will also be concerned with providing the basic skills needed to satisfactorily assess the suitability of diverse 2LL methodologies & programs to meet the needs of limited English proficiency (LEP) students. An underlying assumption of the course is that learning is a social process that takes place within the broader social milieu of the learner's speech community. Accordingly, 2L learners bring into the classroom diverse language and cultural backgrounds, as well as a unique set of competencies, skills, sensitivities, goals, and needs. In order to provide for a successful learning environment, teachers must be able to identify and relate to the diversity inherent in today's student population and be able to take 'affirmative steps' towards addressing the needs of the students in their classrooms. Course content and activities will assist participants in developing a greater 'appreciation of democracy and diversity' in the classroom as we prepare for a global society as reflected in current theories of 2L acquisition.

TESOL Topics and Elective Courses *

CLD 504 - TESOL Methods

3 Credit(s)

This course introduces students to the study, philosophy, aims and methods of teaching English as a second (or foreign language) with an emphasis upon the techniques and materials in current use. It aims at providing for examination of current theory and empirical data on language learning, as well as for scrutinizing pertinent pedagogical implications/applications for the TESOL K-12/ CLD classroom intended to address the language needs of non-native speakers of English. In addition, the course reviews research-based instructional methodologies applicable to teaching language through the content areas. The course considers the large 'storehouse of information' currently available on how to successfully tap into this knowledge in order to develop and implement sound methodological approaches which will assist SL/ CLD learners in becoming proficient in the target language and successful in the academic content areas. Content addresses teachers need to rely on effective instructional approaches and strategies that promote a climate that is conducive to opportunities for active involvement in learning about language, academic content, about classmates, and about the whole world. The course examines a synthesis of current 2L theory that should serve as the basis for development, selection, and modification of suitable materials and methods that will predictably be conducive to successful learning in both the language and content area classroom.

CLD 505 - TESOL Reading

3 Credit(s)

This course introduces students interested in questions of language acquisition to the theories and practices relating to learning to read in a second language or second dialect. Topics included are models for acquiring foreign language reading skills, teaching strategies for second language/dialect literacy, evaluating literacy skills, current research about acquisition of literacy skills, and political and social implications of second language/dialect literacy. The content addresses specifics about teaching reading for ELL/ CLD populations in classrooms. Opportunity is provided for candidates to become familiar with resources and data on school populations. The main goal of this course is to assist practicing or prospective teachers to learn how to promote development or crucial reading skills among ELL students. The course seeks to reexamine the pedagogical issues central to the 2L reading classroom, to be able to select suitable materials, to develop appropriate reading activities, to identify valid assessment measures, and to plan effective reading lessons suitable for instruction of ESL/CLD students.

CLD 506 - TESOL Writing

3 Credit(s)

This course introduces students interested in questions of language acquisition to the theories and practices of learning to write in a second language or second dialect. Topics included are 2L literacy development, writing theory, writing strategies, and 2L writers and rhetorical concerns. In addition, content examines teaching methodologies for second language/dialect literacy, assessment/evaluation of literacy skills, current research about acquisition of literacy skills, and political, cultural and social implications of ESL/ CLD literacy development. The main goal of this course is to assist practicing or prospective teachers to develop proficiency in promoting development of crucial 2L literacy/writing skills among English Language Learners (ELLs). Content is responsive to the need to reexamine pedagogical issues central to the 2L writing classroom, and also be able to select suitable materials, to develop appropriate activities that address both second language literacy and content area knowledge, to identify valid assessment measures, to integrate technology into classrooms and to plan effective writing lessons suitable to the 2L classroom. Lastly, as part of the course content, we will seek to foster cultural sensitivity to the diverse student population becoming increasingly prevalent in classrooms in the U.S. We will also be concerned with providing the basic skills needed to satisfactorily assess the suitability of diverse 2LL methodologies & programs to meet the needs of limited English proficiency (LEP)

students. An underlying assumption of the course is that learning is a social process that takes place within the broader social milieu of the learner's speech community. Accordingly, 2L learners bring into the classroom diverse language and cultural backgrounds, as well as a unique set of competencies, skills, sensitivities, goals, and needs. They may also bring with them different levels of L1 literacy skills. In order to provide for a successful learning environment, teachers must be able to identify and relate to the diversity inherent in today's student population and be able to take 'affirmative steps' towards addressing the needs of the students in their classrooms. Course content and activities will assist participants in developing a greater 'appreciation of democracy and diversity' in the classroom as we prepare for a global society as reflected in current theories of 2L development for academic purposes.

CLD 507 - TESOL Tests and Measurement

3 Credit(s)

This course examines language assessments in TESOL/ CLD. Course contents is intended to provide a practical and comprehensive overview of the different phases and activities involved in developing and implementing sound, rational, and effective language assessment instruments and activities. The course recognizes the relevance of context, purposiveness, and realistic discourse in testing. Specifically, the initial segment of the course will emphasize an integrated approach to educating English language learners (ELL) students, which encompasses social, cognitive, academic as well as linguistic dimensions and how to better assess the language instruction needs of ESL/CLD students. The course will focus on the practical applications of fundamental assessment principles, as well as development and evaluation of teacher-generated instruments for placement and diagnosis. Content discusses various principles for guiding either practicing and prospective teachers through an assessment process mindful of standards-based instruction (e.g., dictation, cloze summary, oral interview, role-plays, portfolio assessment techniques) for teaching ESL/ CLD students at various levels.

CLD 508 - Bilingualism

3 Credit(s)

This course is a study of what it means to be a bilingual child or adult. It explores both the mind's role in bilingualism and in language acquisition as well as societal considerations. It surveys educational systems response to language variance among students and explores the social, academic and language learning consequences of growing up bilingual. Content seeks to familiarize students with various aspects of bilingual education and language contact from a social-psychological perspective. It aims at providing for analysis and evaluation of current theory and research on bilingualism, as well as for examination of pertinent pedagogical implications/applications. First, we are interested in both social and individual factors related to bilingualism. That is, how and why bilingualism originates both as an individual and a societal phenomenon, and the social-psychological consequences of the same. Accordingly, we will consider topics such as: language attitudes, language and nation, bilingualism and inter-group relations, speech style and social evaluation. Second, we will also consider some important aspects of language contact such as: linguistic borrowing; code switching; language maintenance and language shift; English as a language of wider communication; language and context; diglossia; conversational interactions; language policy; language and culture. Third, we will also examine some significant aspects of the psychology of bilingualism. Specific topics to be covered are: cognitive and sociocultural consequences of bilingualism; neurolinguistic aspects of language acquisition and bilingualism; theoretical and research issues of bilingual education; performance of bilingual children on standardized tests; alternative approaches to testing and assessment of bilinguals; the teaching of English to non-native English speakers in the State of Colorado.

CLD 509 - TESOL Practicum/Capstone

3 Credit(s)

This course explores fundamental instructional considerations in TESOL by providing a school-based practical

experience. This is a eight (8) week course under the direction of an experienced teacher/mentor and a university supervisor that provides classroom experience in an additional area of teaching certification for those who already hold certification in one area. Interns will observe teaching, participate in work with students (K-12), participate in planning sessions, teach and participate in all activities for which regularly employed teachers are responsible. This course is the culminating experience for the MA in Education with CLD Endorsement. A copy of the final summative teaching evaluation is placed in the candidates file in the Teacher Education Department. All candidates are expected to demonstrate the basic skills relative to all teaching skills, such as lesson planning, unit planning, classroom management, effective instructional approaches, appropriate selection of materials, and knowledge of the teaching-learning process prior to being recommended for TESOL K-12 certification. Instruction should demonstrate alignment with the Colorado CLD Competencies. Candidates are required to teach at least six (6) lessons at an appropriate level (i.e., K-6, 7-12). As part of the evidence of competence to provide effective instruction in English as a Second Language/ CLD, class participants are required to generate a Professional Portfolio aligned of the Colorado CLD Competencies, aligned with the five TESOL/CAPE domain areas and to successfully pass a TESOL Portfolio Exit Interview.

CLD 579 - Special Topics in CLD

3 Credit(s)

This is a tutorial course that entails an examination of selected topics of education as they relate directly to first and second language learning, pedagogy, bilingualism, multicultural education and assessment. The course may focus on different semesters on such topics as phonology and language learning, psycholinguistics and bilingualism, or teaching English in the content area classroom. This course may be repeated for credit once under different course subtitle. Prerequisite: consent of instructor. Course content is aligned with Colorado Culturally and Linguistically Diverse Competencies (CLD) and TESOL Teacher Preparation Standards. Students wishing to take a topics course must have a subject of study in mind which they wish to pursue; subjects or topics will not be furnished for them. Each student must have permission from the Chairman of the Teacher Education Department. Each student must design a program of study meeting the supervisory faculty member's approval. The CLD-579 - Topics in CLD or TESOL form must be filled out in triplicate (one for the student, one for the faculty member, one for the English Department Chairman) and approved prior to enrollment in CLD-579. Student enrollment without such approval will be cancelled. A student enrolled in CLD-579 will have one bi-weekly conference throughout the semester with the supervising faculty member (may take place via online).

Note

- Specific course content may vary based on instructor availability and topic demand.
- *15 Credits required for Post baccalaureate TESOL Certificate
- To add Endorsement Application, go to Colorado Department of Education's website, and complete "Application for an Added Endorsement Based on an Approved Program."

Master of Arts in Education, Curriculum and Instruction Emphasis

The goal of the five-semester Curriculum and Instruction emphasis is to develop strong planning and teaching skills in educators who are dedicated to ensuring all students, particularly students from diverse cultural and linguistic backgrounds, succeed academically.

Total credits: 30, including M.A. Academic Core of 9 credits

Academic Core Requirements for MA Candidates only

ED 507 - Integrated Instruction & Assessment

3 Credit(s)

This course supports candidates in aligning their beliefs and values to develop their teaching identity. Metacognitive processes will help candidates be aware of their own motives and empower them to actively participate in their own learning as they begin to develop their art of teaching. Candidates will design a sequence or unit of study following the Understanding by Design framework which includes digging deeper into formative and summative assessments and interpreting assessment data to teach responsively. Alternative methods of facilitating instruction and assessing student performance and understanding will be investigated and implemented to increase the candidate's understanding of their students' abilities, interests, and needs. Candidate's will also discover strategies for fostering successful community partnerships.

ED 534 - Multicultural Perspectives

3 Credit(s)

This course provides students with an overview of the role of cultural diversity in the classroom and its effect on teaching and learning. While exploring issues of race, class, culture, and power, students will develop a deeper understanding of school demographics, perspectives on teaching and learning and the interaction between pedagogy and culture. Students will gain an understanding about the effects of different social, cultural, linguistic, and cognitive experiences on learner development, the impact this can have on their choices as teachers and leaders.

ED 557 - Research Methods

3 Credit(s)

Research methods is designed to provide candidates in the program with background knowledge of quantitative and qualitative research methods. The course will help candidates evaluate the appropriateness of each method when designing a research project. Candidates will develop mini- proposals for each type of research in preparation for implementing and reporting on their own research project.

Electives

ED 586 - Education Creation and Entrepreneurial Teachers

3 Credit(s)

The Educating Creative and Entrepreneurial Learners course will examine a variety of instructional strategies to foster engagement, understanding, and inquiry. This course will focus on student-directed and differentiated experiences to increase rigor and deepen learning.

ED 587 - Mentor Teacher Seminar I

3 Credit(s)

The Mentoring and Coaching Seminar I course is the co-requisite for ED 588 Mentoring and Coaching Internship I. This seminar course will support educators in developing their art of mentoring and coaching through intention, planning, practice, and reflection to actively engage in enhancing teaching practices and addressing systemic issues to aid in the transformation of schools.

Co-requisite(s): Admission to Mentor Endorsement Program and **ED 588**

ED 588 - Mentoring and Coaching Internship I

3 Credit(s)

The Mentoring and Coaching Internship I course is the co-requisite for ED 587 Mentor Seminar I. This internship will support educators in developing their art of mentoring and coaching through intention, planning, practice, and reflection to actively engage in enhancing teaching practices and addressing systemic issues to aid in the transformation of schools.

Grade Mode: P/F

Prerequisite(s):

Admission to Mentor Endorsement Program and **ED 587**

ED 590 - PLCs: Collaboration and Collective Responsibility

3 Credit(s)

Creating Collaborative Cultures and Collective Responsibility through Professional Learning Communities will challenge educators to alter long-held assumptions, beliefs, expectations, and habits. Candidates will examine the influences of beliefs and norms on classroom and school cultures. Additionally, candidates will explore how Professional Learning Communities can dramatically improve school performance, student engagement, and the self-efficacy of educators.

ED 591 - Capstone Project II

3 Credit(s)

In this Capstone II course educators will continue engaging in the action research process which involves collecting and analyzing data, reporting the results, and taking informed action. Educators will continue to reflect on and define their purpose for action research which may include building the reflective practitioner, making progress on school wide priorities, and building professional cultures. While planning and conducting action research, educators will respect the ethical obligations that educational researchers have and adhere to the codes and procedures involved.

ED 594 - Mentor Teacher Seminar II

3 Credit(s)

This internship will support educators in developing their art of mentoring and coaching through intention, planning, practice, and reflection to actively engage in enhancing teaching practices and addressing systemic issues to aid in the transformation of schools.

Prerequisite(s):

Admission to Mentor Endorsement Program and completion of ED 587

Co-requisite(s): ED 595

ED 595 - Mentoring and Coaching Internship II

3 Credit(s)

This internship will support educators in developing their art of mentoring and coaching through intention, planning, practice, and reflection to actively engage in enhancing teaching practices and addressing systemic issues to aid in the transformation of schools.

Grade Mode: P/F

Prerequisite(s):

Admission to Mentor Endorsement Program and completion of ED 588

Co-requisite(s): ED 594

ED 643 - Capstone I

3 Credit(s)

In this Capstone I course, educators will investigate the action research process which involves selecting a focus, identifying research questions, conducting a review of the literature, and generating a plan. Educators will reflect on and define their purpose for action research which may include building the reflective practitioner, making progress on school wide priorities, and building professional cultures. While planning and conducting action research, educators will recognize the ethical obligations that educational researchers have and adhere to the codes and procedures involved.

Additional Elective Requirements (9 Credits or equivalent)

Students will take or transfer in 9 semester hours of elective in an emphasis of their choice. Courses must be submitted to the Graduate Coordinator for approval.

Master of Arts in Education, Educational Leadership Program (Principal License)

The six-semester Educational Leadership program is designed to equip qualified and experienced educators with the knowledge and skills necessary to assume leadership positions in schools, particularly those of program supervisor/director or building principal/assistant principal. Studies include leadership; curriculum, instruction, and assessment; and school management, law and finance. The program emphasizes the role of a school leader as a collaborator and creator of a supportive and stimulating environment for children and teachers.

This course of study leads to a State of Colorado principal license.

Cognate Requirements

ED 503 - Understanding the Principalship

3 Credit(s)

This course is an introduction to the Principal Licensure program with assessment components, grounded in the Colorado's Principal Quality Standards, English Language Learner Standards, READ Act School Administrator Standards, and Standards for Educator Effectiveness. Candidates will be expected to critically examine each of Standards in terms of how they are implemented through policies and practices within their own districts while making recommendations for improving such policies based on current research and best practice.

Prerequisite(s):

Admission to principal licensure program

ED 505 - Inclusive and Responsive School Leadership

3 Credit(s)

This course will focus on how effective principals use inclusive and responsive leadership to promote equity among students, staff and the community. Candidates will draw upon research, theory and best-practice in diversity, equity and inclusion (DEI) to develop their skills in creating safe school environments that maximize support for student and staff well being and meaningful engagement with families and communities.

Prerequisite(s):

Admission to principal licensure program

ED 508 - School Law and Finance

3 Credit(s)

This course will provide an opportunity for administrative candidates to examine the ways in which legal and financial structures impact the operation of a school. Emphasis will be placed on legal obligations of school leaders and how these work in tandem with school funding processes to inform local policies, budgets, and administrative practices.

Prerequisite(s):

Admission to principal licensure program

ED 510 - Strategic and Ethical School Leadership

3 Credit(s)

This course will focus on how effective principals use strategic and ethical leadership to achieve strategic goals for students, educators, and themselves. Candidates will draw upon research, theory and best-practice to develop their skills in shared visioning, educator recruitment and hiring, educator retention and development, distributed leadership and leveraging strategic partnerships and resources sharing to achieve school and district goals.

Prerequisite(s):

Admission to principal licensure program

ED 515 - Principal Licensure Intern I

1 Credit(s)

During this 50 hour internship, field experience under the supervision of two building principals, one of which cannot be the building where the candidate is currently working or has worked, candidates will demonstrate competencies in the subject areas of Colorado Academic Standards, schools and society.*This course will also introduce administrative candidates to Action Research Project.*Students will pick a topic of educational interest or importance to be completed by the end of the endorsement*Students will be introduced to the IRB process and research procedures*Students will choose relevant educational topic(s)*Students will submit topic for approval (faculty and university)The principal internships will supplement the research and IRB process.

Prerequisite(s):

ED 503 Minimum Grade: B

ED 525 - Principal Licensure Intern II

1 Credit(s)

During this 50 hour internship, field experience under the supervision of two building principals (one of which cannot be in the building where the candidate is currently working or has worked) candidates will demonstrate competencies in the subject areas of finance and school law. This course will also continue with administrative candidates Action Research Project.

Prerequisite(s):

ED 505 Minimum Grade: B

AND

ED 508 Minimum Grade: B

AND

ED 515 Minimum Grade: P

ED 528 - Instructional Leadership

3 Credit(s)

This course will prepare school leaders to assume roles as effective instructional leaders by implementing evidence-based practices in schoolwide management and improvement within a standards-based environment. Emphasis will be placed on managing curriculum and assessment in alignment with P-20 standards, supporting educator effectiveness through professional development and coaching, and supporting diverse students and families through tiered systems and responsive practices that honor diversity, equity and inclusion (DEI).

Prerequisite(s):

Admission to principal licensure program

ED 529 - Supervision and Evaluation of Instruction

3 Credit(s)

This course will prepare candidates for the supervision and evaluation of PK-12 educators to support effective instruction and enhance the academic achievement of PK-12 students. Candidates will gain an understanding best practices in observation, feedback, and using coaching modules to support educator reflection and growth. Candidates will also explore the role that potential bias can play in educator evaluation and develop skills for mitigating

such bias within their practices as educational leaders.

Prerequisite(s):

Admission to principal licensure program

ED 535 - Principal Licensure Internship III

1 Credit(s)

During this 50 hour internship, field experience under the supervision of two building principals (one of which cannot be in the building where the candidate is currently working or has worked) candidates will demonstrate competencies in the subject areas of managing curriculum, instruction and assessment, supervision for improvement of instruction and building level assessment. Each area will include reflection papers and 50 hours of logged internship during the semester.

Prerequisite(s):

ED 525 Minimum Grade: B

ED 545 - Principal Licensure Internship IV

3 Credit(s)

During this 150 hour internship, field experience under the supervision of two building principals (one of which cannot be in the building where the candidate is currently working or has worked) candidates will demonstrate in a culminate final interview, competencies in the subject areas of schools and society, school law, fiscal management, personnel management, curriculum and instruction, assessment, supervision and building management. During this internship, candidates will write reflection papers, one on each topic and log 150 hours of internship during the semester. This course has the accumulation of the final/capstone presentation of the students Action Research Project.

Prerequisite(s):

ED 535 Minimum Grade: P

All candidates MUST successfully pass the Science of Reading exam administered in ED 545 Principal Internship IV to complete the program and be eligible for licensure

Academic Core Requirements for MA Candidates only

ED 507 - Integrated Instruction & Assessment

3 Credit(s)

This course supports candidates in aligning their beliefs and values to develop their teaching identity. Metacognitive processes will help candidates be aware of their own motives and empower them to actively participate in their own learning as they begin to develop their art of teaching. Candidates will design a sequence or unit of study following the Understanding by Design framework which includes digging deeper into formative and summative assessments and interpreting assessment data to teach responsively. Alternative methods of facilitating instruction and assessing student performance and understanding will be investigated and implemented to increase the candidate's understanding of their students' abilities, interests, and needs. Candidate's will also discover strategies for fostering successful community partnerships.

ED 534 - Multicultural Perspectives

3 Credit(s)

This course provides students with an overview of the role of cultural diversity in the classroom and its effect on teaching and learning. While exploring issues of race, class, culture, and power, students will develop a deeper understanding of school demographics, perspectives on teaching and learning and the interaction between pedagogy and culture. Students will gain an understanding about the effects of different social, cultural, linguistic, and cognitive experiences on learner development, the impact this can have on their choices as teachers and leaders.

ED 557 - Research Methods

3 Credit(s)

Research methods is designed to provide candidates in the program with background knowledge of quantitative and qualitative research methods. The course will help candidates evaluate the appropriateness of each method when designing a research project. Candidates will develop mini-proposals for each type of research in preparation for implementing and reporting on their own research project.

Master of Arts in Education, Post Baccalaureate Initial Teaching License - Elementary Education

Prerequisite to Professional Core

ED 501 - Perspectives in Teaching and Learning

3 Credit(s)

This course is a study of school, societal and cultural issues and their influences on teaching and learning. As an introductory course, the purpose is to learn about teaching as a career choice, the historical development of American education, social and political structures in the schools, and power groups influencing educational policy. Issues of educational reform will include civil rights, students' rights, ethnic, gender and racial issues, individualizing instructions, special education, learning theory models, (inclusive of diversity issues related to electronic media) and alternative school structures. Emphasis is placed on the orientation and development of a proficient and reflective professional educator.

ED 502 - The Exceptional Learner

3 Credit(s)

This course is designed to survey the foundations of special education, including historical, philosophical perspectives, legal issues and current trends in instruction and programming. Students will explore the role of general education as it relates to the education of the student with exceptional needs. Emphasis will be placed on developing knowledge of various disabling conditions, available resources and educational alternatives. Students will learn about the ethical and sociopolitical influences on prevention, intervention and educational programs for students with special needs, from birth through post-secondary ages. Learning characteristics and the diverse needs of students who receive special education services as well students who culturally and linguistically diverse will also be studied. From a pedagogically sound, as well as developmentally appropriate perspective, the similarities and differences within and between exceptionalities and typical development will be emphasized.

ED 547 - Teaching, Learning, and Technology

3 Credit(s)

This course is an introduction to the theories and applications of appropriate and effective uses of technology to achieve pedagogical goals. Content includes exploring emerging technologies, designing lessons aligned to the Colorado Essential Skills, integrating digital tools to strengthen teaching and improve student learning, identifying guidelines for designing and implementing online learning environments, comparing various theories of teaching and learning related to the design of virtual lessons/online programs, and describing effective instructional strategies for online learning. Using technology in K-12 classrooms is relevant to prepare students for success in post-secondary and workforce settings.

Prerequisite(s):

Teacher Education Background Check Passed

Pass Praxis II

Candidates are advised to take and pass all Praxis II exams prior to beginning the program and are required to take and pass all Praxis II exams prior to beginning the professional core.

Professional Core

ED 506 - Student Teaching-Elementary I

1 to 3 Credit(s)

This field experience is a required component of the post-baccalaureate teacher licensure program and provides candidates with a comprehensive experience in a public school setting. Candidates must complete all components outlined in the Student Teaching Handbook. A team of faculty supervisors and mentors will help the candidate acquire the necessary skills in the practice of building a community of learners while teaching and learning. The community of learners includes the student teacher, the cooperating mentor teacher, the university field supervisor, the building principal, and the classroom students. This student teaching experience requires a minimum of 640 hours of contact time over the course of an academic year.

Prerequisite(s):

Teacher Education Background Check Passed

ED 511 - STEM Methods

3 Credit(s)

This course provides a background on high leverage practices such as: explaining and modeling content, eliciting and interpreting, and diagnosing patterns of student thinking for STEM. The course will also include close examination of the P-6 Colorado Science and Mathematics Content Standards. This background prepares students to develop and implement STEM learning experiences for students at the elementary grade level. Emphasis is on the integration of STEM into the broader curriculum, especially literacy, and to instruction strategies that support success for all students, including linguistically and culturally diverse learners. Topics cover interpreting student work, checking student understanding, designing units, being precise with language in STEM content, and how to use inquiry.

Prerequisite(s):

Admission to Ed Prep Program and Clear fingerprint background check

ED 512 - Inclusive and Safe Classroom Management

3 Credit(s)

This course explores the foundational principles of effective classroom instruction, behavior evaluation, and management techniques while promoting a safe and healthy school environment. This course equips candidates with critical thinking skills to design and implement successful classroom management strategies, emphasizing student achievement through effective time management, communication, and record-keeping procedures. Candidates will also develop comprehensive management plans. Candidates will examine school law and professional ethics for educators. They will gain insights into the legal and ethical frameworks that guide their roles as educators, ensuring they are well-prepared to uphold the highest standards of professionalism and integrity. The content of this course addresses health and wellness topics, including conflict resolution, mediation, nutrition, emergency protocols, and first aid within the educational setting. Candidates will design and implement SEL curricula, considering diverse student needs and crisis prevention and intervention strategies. This course is essential for educators to create a safe, healthy, and inclusive learning environment.

NOTE:

- Licensure candidates will be required to wear photo identification as they participate in this field-experience.
- Photo IDs must be obtained PRIOR to the beginning of the field-experience component.
- Field-experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Teacher Education Background Check Passed

Co-requisite(s): A pre-professional, supervised, field-based experience

ED 521 - Science of Reading

3 Credit(s)

This foundational course in reading explores literacy development and the structure of language by

1. defining the relationship between cognitive and linguistic development
2. assessing literacy development
3. nurturing the development of emergent literacy, and
4. investigating and planning instruction for the five components of reading which include phonemic awareness, phonics, fluency, vocabulary, and comprehension

Prerequisite(s):

Admission to Post Bacc Program and Clear Fingerprint Background Check

ED 522 - Pedagogical Strategies for Cultural Competence

3 Credit(s)

This is a dynamic and transformative course designed to equip future educators with the essential knowledge and skills to foster cultural competence in the classroom. Students will engage in learning that enhances their ability to use data to better understand and respond to diversity in their respective schools and communities. They will critically examine the impact of cultural values and bias on school curriculum and teacher practice, while applying strategies aimed at creating more culturally responsive experiences for diverse children. Students will also deepen their understanding and practice in working with vulnerable students and families, including those facing abuse, trauma, generational poverty and other forms of crisis.

NOTE: A pre-professional, supervised, field-based experience is a course requirement. Licensure candidates will be

required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component. Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to Post Bacc Program and Clear fingerprint/background check

ED 560 - Educational Psychology

3 Credit(s)

This course supports teachers in developing practical and effective approaches to various forms of student assessment. Students will make distinctions between formative and summative assessments. Pre-service teachers will learn various approaches to gathering student and teacher feedback to facilitate students learning and guide instruction. The course will explore grading systems that are consistent, reliable, and valid. This course has field lab hours, which are off-campus; students are responsible for their own transportation.

ED 561 - The Reading and Writing Connection

3 Credit(s)

This course delves into the art of effective teaching methods in the realms of reading and writing, highlighting the intricate link between these subjects. Furthermore, it addresses the reality that some students encounter difficulties in these areas. The course equips learners with the skills to employ a diverse range of assessments, encompassing both formal and informal approaches, to gauge a student's strengths and areas needing improvement. It will also elucidate the significance of employing various assessment methods and their impact on enhancing instruction and elevating student achievement. This course will involve lectures, discussions, and videos in a hybrid, online, or face-to-face model along with practice in the classroom. Students will complete associated hours of supervised field-based experiences (20 hours for undergraduate students) to observe and interact directly in educational environments. Field service hours are required for licensure. Documentation of verified hours will be collected as part of the undergraduate course. Students will be responsible for their own transportation to the field sites.

NOTE:

- A 20-hour, pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience.
- Photo IDs must be obtained PRIOR to the beginning of the field-experience component.
- Field-experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to Post bacc Program and Clear fingerprint/background check

Student Teaching

ED 520 - Student Teaching-Elementary II

3 Credit(s)

This field experience is a required component of the post-baccalaureate teacher licensure program and provides candidates with a comprehensive experience in a public school setting. Candidates must complete all components outlined in the Student Teaching Handbook. A team of faculty supervisors and mentors will help the candidate acquire

the necessary skills in the practice of building a community of learners while teaching and learning. The community of learners includes the student teacher, the cooperating mentor teacher, the university field supervisor, the building principal, and the classroom students. This student teaching experience requires a minimum of 640 hours of contact time over the course of an academic year.

Prerequisite(s):

Teacher Education Background Check Passed

Academic Core Requirements for MA Candidates only

ED 507 - Integrated Instruction & Assessment

3 Credit(s)

This course supports candidates in aligning their beliefs and values to develop their teaching identity. Metacognitive processes will help candidates be aware of their own motives and empower them to actively participate in their own learning as they begin to develop their art of teaching. Candidates will design a sequence or unit of study following the Understanding by Design framework which includes digging deeper into formative and summative assessments and interpreting assessment data to teach responsively. Alternative methods of facilitating instruction and assessing student performance and understanding will be investigated and implemented to increase the candidate's understanding of their students' abilities, interests, and needs. Candidate's will also discover strategies for fostering successful community partnerships.

ED 534 - Multicultural Perspectives

3 Credit(s)

This course provides students with an overview of the role of cultural diversity in the classroom and its effect on teaching and learning. While exploring issues of race, class, culture, and power, students will develop a deeper understanding of school demographics, perspectives on teaching and learning and the interaction between pedagogy and culture. Students will gain an understanding about the effects of different social, cultural, linguistic, and cognitive experiences on learner development, the impact this can have on their choices as teachers and leaders.

ED 557 - Research Methods

3 Credit(s)

Research methods is designed to provide candidates in the program with background knowledge of quantitative and qualitative research methods. The course will help candidates evaluate the appropriateness of each method when designing a research project. Candidates will develop mini- proposals for each type of research in preparation for implementing and reporting on their own research project.

Note for Candidates

Candidates may request transfer of up to 6 semester hours upon being admitted to the program. Candidates requesting transfer or substitution of prior coursework must declare so within the first semester of study.

Master of Arts in Education, Post Baccalaureate Initial Teaching Licensure - Secondary Education/K-12

Prerequisite to Professional Core

ED 501 - Perspectives in Teaching and Learning

3 Credit(s)

This course is a study of school, societal and cultural issues and their influences on teaching and learning. As an introductory course, the purpose is to learn about teaching as a career choice, the historical development of American education, social and political structures in the schools, and power groups influencing educational policy. Issues of educational reform will include civil rights, students' rights, ethnic, gender and racial issues, individualizing instructions, special education, learning theory models, (inclusive of diversity issues related to electronic media) and alternative school structures. Emphasis is placed on the orientation and development of a proficient and reflective professional educator.

ED 502 - The Exceptional Learner

3 Credit(s)

This course is designed to survey the foundations of special education, including historical, philosophical perspectives, legal issues and current trends in instruction and programming. Students will explore the role of general education as it relates to the education of the student with exceptional needs. Emphasis will be placed on developing knowledge of various disabling conditions, available resources and educational alternatives. Students will learn about the ethical and sociopolitical influences on prevention, intervention and educational programs for students with special needs, from birth through post-secondary ages. Learning characteristics and the diverse needs of students who receive special education services as well students who culturally and linguistically diverse will also be studied. From a pedagogically sound, as well as developmentally appropriate perspective, the similarities and differences within and between exceptionalities and typical development will be emphasized.

ED 512 - Inclusive and Safe Classroom Management

3 Credit(s)

This course explores the foundational principles of effective classroom instruction, behavior evaluation, and management techniques while promoting a safe and healthy school environment. This course equips candidates with critical thinking skills to design and implement successful classroom management strategies, emphasizing student achievement through effective time management, communication, and record-keeping procedures. Candidates will also develop comprehensive management plans. Candidates will examine school law and professional ethics for educators. They will gain insights into the legal and ethical frameworks that guide their roles as educators, ensuring they are well-prepared to uphold the highest standards of professionalism and integrity. The content of this course addresses health and wellness topics, including conflict resolution, mediation, nutrition, emergency protocols, and first aid within the educational setting. Candidates will design and implement SEL curricula, considering diverse student needs and crisis prevention and intervention strategies. This course is essential for educators to create a safe, healthy, and inclusive learning environment.

NOTE:

- Licensure candidates will be required to wear photo identification as they participate in this field-experience.
- Photo IDs must be obtained PRIOR to the beginning of the field-experience component.
- Field-experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Teacher Education Background Check Passed

Co-requisite(s): A pre-professional, supervised, field-based experience

ED 547 - Teaching, Learning, and Technology

3 Credit(s)

This course is an introduction to the theories and applications of appropriate and effective uses of technology to achieve pedagogical goals. Content includes exploring emerging technologies, designing lessons aligned to the Colorado Essential Skills, integrating digital tools to strengthen teaching and improve student learning, identifying guidelines for designing and implementing online learning environments, comparing various theories of teaching and learning related to the design of virtual lessons/online programs, and describing effective instructional strategies for online learning. Using technology in K-12 classrooms is relevant to prepare students for success in post-secondary and workforce settings.

Prerequisite(s):

Teacher Education Background Check Passed

ED 563 - Content Area Literacy - Secondary

3 Credit(s)

This is a graduate level course that covers approaches and strategies for teaching secondary reading in various subject areas. Topics include textbook selection and readability, comprehension skills, study skills, and meeting needs of diverse student populations.

Content Methods

Methods courses will vary by licensure area and can be taken during either semester of the first year, depending on course offerings and availability

ED 504 - Secondary Teaching and Learning Methods

3 Credit(s)

Students will examine constructivist theory and mindset specific to instructional methods or a selected content area. This class will provide opportunities for observing, standards-based lesson and unit planning, teaching lessons, and assessment for understanding in support of the student's field experience. This will include working with students individually, in small groups, and with the whole classroom.

Prerequisite(s):

Teacher Education Background Check-minimum score 1, Admission to Graduate Study in Teacher Education.

ED 567 - Methods of Teaching Math - Secondary

3 Credit(s)

This course is designed to support the beginning secondary math teacher. Presuming a solid foundation of conceptual knowledge in the content area, the course emphasizes the development of a framework of instructional knowledge and skills to provide successful learning for all students. Students must take at least 24 semester hours of credit in math.

ED 568 - Methods of Teaching Science-Secondary

3 Credit(s)

This course provides a background in constructivist, inquiry-based science instruction for middle school and high school students that corresponds to the P-12 CO Science Education Standards. Pre-service students will gain expertise in planning standards-based science instruction, science teaching strategies and assessment bringing coherence to the activities of science teaching and learning. Utilizing materials, resources and technology that support secondary science education, pre-service teachers will learn to integrate inquiry-based, project and problem-based teaching models and collaborative strategies into long-term and daily secondary instructional plans. Emphasis is on the integration of science into the broader curriculum, especially literacy, and to instruction strategies that support success for all students, including linguistically and culturally diverse learners.

Student Teaching I

ED 577 - Student Teaching Secondary I

1 to 3 Credit(s)

This field experience is a required component of the post-baccalaureate teacher licensure program and provides candidates with a comprehensive experience in a public school setting. Candidates must complete all components outlined in the Student Teaching Handbook. A team of faculty supervisors and mentors will help the candidate acquire the necessary skills in the practice of building a community of learners while teaching and learning. The community of learners includes the student teacher, the cooperating mentor teacher, the university field supervisor, the building principal, and the classroom students. This student teaching experience requires a minimum of 640 hours of contact time over the course of an academic year.

Prerequisite(s):

Admission to the Educator Preparation Program

Pass Praxis II

Candidates are advised to take and pass all Praxis II exams prior to beginning the program and are required to take and pass all Praxis II exams prior to beginning the professional core.

Professional Core

ED 522 - Pedagogical Strategies for Cultural Competence

3 Credit(s)

This is a dynamic and transformative course designed to equip future educators with the essential knowledge and skills to foster cultural competence in the classroom. Students will engage in learning that enhances their ability to use data to better understand and respond to diversity in their respective schools and communities. They will critically examine the impact of cultural values and bias on school curriculum and teacher practice, while applying strategies aimed at creating more culturally responsive experiences for diverse children. Students will also deepen their understanding and practice in working with vulnerable students and families, including those facing abuse, trauma, generational poverty and other forms of crisis.

NOTE: A pre-professional, supervised, field-based experience is a course requirement. Licensure candidates will be

required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component. Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to Post Bacc Program and Clear fingerprint/background check

ED 560 - Educational Psychology

3 Credit(s)

This course supports teachers in developing practical and effective approaches to various forms of student assessment. Students will make distinctions between formative and summative assessments. Pre-service teachers will learn various approaches to gathering student and teacher feedback to facilitate students learning and guide instruction. The course will explore grading systems that are consistent, reliable, and valid. This course has field lab hours, which are off-campus; students are responsible for their own transportation.

Student Teaching II

ED 578 - Student Teaching Secondary II

3 Credit(s)

This field experience is a required component of the post-baccalaureate teacher licensure program and provides candidates with a comprehensive experience in a public school setting. Candidates must complete all components outlined in the Student Teaching Handbook. A team of faculty supervisors and mentors will help the candidate acquire the necessary skills in the practice of building a community of learners while teaching and learning. The community of learners includes the student teacher, the cooperating mentor teacher, the university field supervisor, the building principal, and the classroom students. This student teaching experience requires a minimum of 640 hours of contact time over the course of an academic year.

Academic Core Requirements for MA Candidates only

ED 507 - Integrated Instruction & Assessment

3 Credit(s)

This course supports candidates in aligning their beliefs and values to develop their teaching identity. Metacognitive processes will help candidates be aware of their own motives and empower them to actively participate in their own learning as they begin to develop their art of teaching. Candidates will design a sequence or unit of study following the Understanding by Design framework which includes digging deeper into formative and summative assessments and interpreting assessment data to teach responsively. Alternative methods of facilitating instruction and assessing student performance and understanding will be investigated and implemented to increase the candidate's understanding of their students' abilities, interests, and needs. Candidate's will also discover strategies for fostering successful community partnerships.

ED 534 - Multicultural Perspectives

3 Credit(s)

This course provides students with an overview of the role of cultural diversity in the classroom and its effect on teaching and learning. While exploring issues of race, class, culture, and power, students will develop a deeper understanding of school demographics, perspectives on teaching and learning and the interaction between pedagogy and culture. Students will gain an understanding about the effects of different social, cultural, linguistic, and cognitive experiences on learner development, the impact this can have on their choices as teachers and leaders.

ED 557 - Research Methods

3 Credit(s)

Research methods is designed to provide candidates in the program with background knowledge of quantitative and qualitative research methods. The course will help candidates evaluate the appropriateness of each method when designing a research project. Candidates will develop mini- proposals for each type of research in preparation for implementing and reporting on their own research project.

Note for Candidates

Candidates may request transfer of up to 6 semester hours upon being admitted to the program. Candidates requesting transfer or substitution of prior coursework must declare so within the first semester of study.

Master of Arts in Education, SPED Generalist Initial License

Go to: Educational Preparation

Academic Core Requirements for MA Candidates only

ED 507 - Integrated Instruction & Assessment

3 Credit(s)

This course supports candidates in aligning their beliefs and values to develop their teaching identity. Metacognitive processes will help candidates be aware of their own motives and empower them to actively participate in their own learning as they begin to develop their art of teaching. Candidates will design a sequence or unit of study following the Understanding by Design framework which includes digging deeper into formative and summative assessments and interpreting assessment data to teach responsively. Alternative methods of facilitating instruction and assessing student performance and understanding will be investigated and implemented to increase the candidate's understanding of their students' abilities, interests, and needs. Candidate's will also discover strategies for fostering successful community partnerships.

ED 534 - Multicultural Perspectives

3 Credit(s)

This course provides students with an overview of the role of cultural diversity in the classroom and its effect on teaching and learning. While exploring issues of race, class, culture, and power, students will develop a deeper understanding of school demographics, perspectives on teaching and learning and the interaction between pedagogy and culture. Students will gain an understanding about the effects of different social, cultural, linguistic, and cognitive experiences on learner development, the impact this can have on their choices as teachers and leaders.

ED 557 - Research Methods

3 Credit(s)

Research methods is designed to provide candidates in the program with background knowledge of quantitative and qualitative research methods. The course will help candidates evaluate the appropriateness of each method when designing a research project. Candidates will develop mini-proposals for each type of research in preparation for implementing and reporting on their own research project.

Required Courses for Licensure

SPED 531 - SPED for Culturally Linguistically Diverse (CLD) Students

3 Credit(s)

This course focuses on issues and trends related to the assessment, instruction and planning requirements for culturally linguistically diverse learners with exceptional needs. Emphasis will feature the overrepresentation and underrepresentation of culturally diverse students in special education and gifted education programs. It will also explore language, literacy and cultural variables that influence instruction and assessment practices for students with disabilities who come from culturally and linguistically diverse backgrounds.

SPED 534 - Domains of Learning

3 Credit(s)

This course will survey learning theories relevant to the following domains: Cognitive (e.g. brain-based learning), Cognition & literacy, affective, social, behavior/psycho-motor, cultural and communicative. Learning styles and problem-solving processes will also be addressed in the course. The application of theoretical frameworks for domains to enhance student learning outcomes and literacy skills (phonics, phonemic awareness, vocabulary, fluency, and comprehension) will be required.

SPED 535 - Identification, Teaching SPED

3 Credit(s)

This course is designed to provide students with knowledge of the areas of exceptionalities needed in the special education planning process. The course will include skills necessary in the multidisciplinary process for identifying students strengths/needs in order to develop and implement Individualized Education and Transition Plans in collaboration with other special education and regular education professionals. Alternative teaching methods and approaches to instructional materials to ensure student (including students who are English language Learners and CLD) success and achievement will be the focus of the course. Candidate will explore intensive intervention programs and structure based on progress monitoring data to improve instruction for students with intensive learning needs who are not responding to the standard protocol at Tier 1 and Tier 2 of MTSS

SPED 540 - Assessment in Special Education

3 Credit(s)

This course is an introduction to assessments and measurements in an educational setting. Students will develop skills for the systematic process of gathering, interpreting, and organizing educationally relevant information based on laws, policies and legal provisions. Emphasis is placed on effective assessment principles and procedures developing both

theoretical and practical knowledge for assessment-based, instructional decision making about the provision of special services to exceptional students and students from cultural and linguistically diverse backgrounds. A focus will be on collaboration with stakeholders to interpret and apply assessment results for the determination of eligibility for special education services. Valid assessment methods/types will be utilized in order to limit the misidentification of CLD and CLDE students. The use of technology, including assistive technology, with all students, including those students with special learning and communication needs will also be explored. A range of technologies will be examined, from low-tech devices such as simple switches to computers, adaptive devices, and software appropriate for students with disabilities. Basic standard setting, grading, testing ethics, locating and evaluating measures, program evaluation, development of foundational skills for assessing literacy development for students with disabilities served in general education setting and classroom research will also be presented.

SPED 542 - Special Education Law

3 Credit(s)

The principles of IDEA and implications for educational programming and instruction will be presented. Section 504 requirements and implications for special and regular education will be presented. Special attention to the educational needs of culturally and linguistically diverse special needs students will be addressed.

SPED 558 - Student Teaching in SPED

3 Credit(s)

The course addresses student teacher state required field experience hours to be completed in a secondary school setting with a focus on transition planning. The experience provided during student teaching will involve placement in a total inclusion setting. This practice experience helps candidates acquire necessary skills to build a community of learners in a secondary setting. The student teaching experience requires a minimum of 120 hours in a secondary setting (inclusion in content areas where applicable). Through a combination of classroom experiences and lab hours, the students will be able to address the significant support needs of exceptional learners including English language learners and students with disabilities who come from culturally and linguistically diverse backgrounds. The instructional team shall be composed of the secondary special education students, student teacher, cooperating teacher, college supervisor, and the building administrator.

Note

- All students are required to declare during admission whether they are in licensure-only or Special Education Generalist Master's Program. Once you declare that you are in licensure-only program and begin, you cannot change it in the middle of the program.
- All students must take and pass the PRAXIS in approved elementary education content exam, SPED Generalist exam and Teaching Reading exam.

Master of Arts in Leadership Education Administration and Development (LEAD) with Emphasis in Higher Education Administration and Leadership (HEAL)

Go to: Educational Leadership

This program prepares higher education professionals to manage and lead in institutions of higher education, especially Hispanic Serving Institutions (HSIs), and to enhance the success of the students they serve.

Degree Requirements (36 credits)

Complete the following 3 Certificates

- Data Analytics and Decision-Making Certificate (9 credits)
- Educational Policy in LEAD Certificate (12 credits)
- Leadership Certificate (12 credits)

Plus the Higher Education Capstone

LEAD 598 - Capstone/Portfolio in Higher Education

3 Credit(s)

Program coherence and student learning are demonstrated through a public exhibition and faculty assessment of a Capstone course. The Capstone is required for graduation with a masters degree. This course is designed to document what students have learned about higher education as a field of study and practice. Through the completion of case studies, two Star papers (scholarly-professional), and a reflective presentation, students will present evidence of how their learning aligns with the program goals of the curriculum. Capstone serves as a formative and summative evaluation of student learning.

Master of Arts in Leadership Education Administration and Development (LEAD) with Emphasis in Superintendent Licensure

Go to: Educational Leadership

Degree Requirements (36 credits)

Complete the following 3 Certificates

- Educational Policy in LEAD Certificate (12 credits)
- Leadership Certificate (12 credits)
- Superintendent Licensure Certificate (9 credits)

Plus a Data Analysis Course

LEAD 560 - Data Analysis in Higher Education

3 Credit(s)

This course introduces the concepts and skills involved in understanding and analyzing research in a variety of areas in higher education. The course provides an overview of basic, general knowledge of various research methodologies. It

emphasizes the conceptual underpinnings of statistical analysis of data, including univariate and bivariate descriptive statistics, sampling distributions, statistical estimation, hypothesis testing and procedures in testing statistical hypothesis for one and two sample designs. This course also enhances students' abilities to locate, read, comprehend, and critically analyze research articles and reports.

Master of Arts in Music Education

Go to: Music

The Master of Arts in Music Education degree furthers Adams State University's mission by providing educational opportunities for K-12 teachers to earn a master's degree in music education at a reasonable cost. The Music Education master's program furthers students' musical and professional growth, enhances the success of the students they serve, and provides graduate coursework necessary for additional salary credit. The degree offers two tracks, using the cohort model. For the first track, all courses are delivered online. The second track is a combined online/on-campus program. Students in this track enroll in the same online core and supporting courses as the first track. Students in the second track choose an area of concentration in performance, composition, or conducting, in lieu of electives. These courses are delivered face-to-face and require a two semester residency in addition to the summer residency at the beginning of the degree program.

Admission Requirements

Degree Requirements

- Minimum degree requirements are 30 hours.
- Students must maintain a cumulative GPA of at least 3.0 throughout the degree.

All candidates for a master's degree in music education must meet graduation requirements as set forth in the Adams State University Academic Catalog.

Music Education Online Track

Course Requirements (minimum 30 credits)

Required Core

MUED 565 - Introduction to Music Ed Research

3 Credit(s)

This course serves as an introduction to research methodologies used in music and music education. It provides a broad foundation in research design, including quantitative, qualitative, historical, philosophical and non-experimental models. In addition, students familiarize themselves with basic statistical concepts, the library, and standard reference tools and electronic resources for the purpose of research.

MUED 567 - Music Ed History and Philosophy

3 Credit(s)

This course will address the historical and philosophical foundations of music education in the United States, with a

focus on aesthetics and the role of the arts in education. Students will formulate a personal philosophy of music education to guide choices in curriculum, teaching, and assessment.

MUED 568 - Sociology and Psychology of Music Education

3 Credit(s)

This course will address the sociological and psychological foundations of music education in the United States focusing on relationships to current trends and best practices.

MUED 596 - Music Education Curriculum Project

3 Credit(s)

This course will address the curriculum and assessment in music education culminating in a curriculum project to be put into practice in the classroom.

Supportive Studies

MUED 503 - Analytical Techniques

3 Credit(s)

This course will examine the principle forms and structural elements of music from the Renaissance through the twentieth century. This course will introduce students to a variety of approaches and philosophies of musical analysis, accomplished through listening and analysis of musical repertoire.

MUED 504 - Orchestration and Arranging

3 Credit(s)

This course will provide instruction in music orchestration and arranging techniques pertinent to music educators. Students will apply these techniques to arrangements for voice and contemporary band/orchestral instruments and ensembles.

MUED 534 - Music Literature and Pedagogy

3 Credit(s)

A study of choral and instrumental literature, pedagogical techniques, and rehearsal techniques appropriate for school ensembles. The course explores resource materials, pedagogical practice, and effective teaching strategies.

Additional Supportive Studies

MUED 521 - World Music and Culture

3 Credit(s)

This course will provide the conceptual foundations necessary to explore and integrate music from around the world into the K-12 music curriculum. Through case study, critical writing, audio and video example, and individual research,

students will investigate, experience, and synthesize the importance of music as it relates to different cultures, customs, religions, and history. Students will learn how music is correlated to everyday activities in a variety of societies.

MUED 523 - Topics in Jazz and Rock

3 Credit(s)

This course will examine the development and principle styles in jazz and rock music in the 20th and 21st centuries. The course will look at the important developments in both styles through musical, historical, and cultural lenses. The goal of this course is to go beyond a broad overview of these styles, with students doing in-depth listening to seminal albums in both jazz and rock.

MUED 533 - American Music History

3 Credit(s)

This course is designed as a survey of the development of music in the current United States, from the Spanish colonization in the 16th century to present times. Topics addressed will include the various musical styles and genres, composers of the period and their compositions. Emphasis will be placed on developing a thorough knowledge of music literature of the time, being able to place this music in its proper historical and cultural context, as well as being able to incorporate it into the K-12 curriculum.

Music Education Online/On-campus Track with Concentrations In

- Composition
- Conducting
- Performing

Course Requirements (Minimum 30 Credits)

Required Core

MUED 565 - Introduction to Music Ed Research

3 Credit(s)

This course serves as an introduction to research methodologies used in music and music education. It provides a broad foundation in research design, including quantitative, qualitative, historical, philosophical and non-experimental models. In addition, students familiarize themselves with basic statistical concepts, the library, and standard reference tools and electronic resources for the purpose of research.

MUED 567 - Music Ed History and Philosophy

3 Credit(s)

This course will address the historical and philosophical foundations of music education in the United States, with a focus on aesthetics and the role of the arts in education. Students will formulate a personal philosophy of music education to guide choices in curriculum, teaching, and assessment.

MUED 568 - Sociology and Psychology of Music Education

3 Credit(s)

This course will address the sociological and psychological foundations of music education in the United States focusing on relationships to current trends and best practices.

MUED 596 - Music Education Curriculum Project

3 Credit(s)

This course will address the curriculum and assessment in music education culminating in a curriculum project to be put into practice in the classroom.

Supportive Studies

MUED 503 - Analytical Techniques

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MUED 504 - Orchestration and Arranging

3 Credit(s)

This course will provide instruction in music orchestration and arranging techniques pertinent to music educators. Students will apply these techniques to arrangements for voice and contemporary band/orchestral instruments and ensembles.

MUED 534 - Music Literature and Pedagogy

3 Credit(s)

A study of choral and instrumental literature, pedagogical techniques, and rehearsal techniques appropriate for school ensembles. The course explores resource materials, pedagogical practice, and effective teaching strategies.

Area of Concentration

MUED 540 - Applied Lessons

2 Credit(s)

This course is required for the combined online/on-campus track of the Master of Arts in Music Education.

MUED 541 - Applied Lessons

2 Credit(s)

This course is required for the combined online/on-campus track of the Master of Arts in Music Education.

MUED 595 - Graduate Recital

1 Credit(s)

Preparation and presentation of a public recital of approximately 60 minutes of prepared music.

Co-requisite(s): MUED 541

Small Ensemble

(2 credits total-courses may be repeated)

MUED 546 - Jazz Ensemble

1 Credit(s)

An advanced instrumental jazz ensemble, open by audition. Repertoire is selected from a variety of jazz styles and periods.

OR

MUED 548 - Jazz Singers

1 Credit(s)

An advanced vocal jazz ensemble, open by audition to students who will be expected to perform a significant leadership role in the ensemble. Repertoire is selected from a variety of jazz and popular styles and periods.

OR

MUED 549 - Chamber Ensemble

1 Credit(s)

Selected groups including instrumental, vocal, and mixed ensembles for performance of music in specific periods and mediums.

OR

Large Ensemble

(2 credits total-courses may be repeated)

MUED 545 - Band

1 Credit(s)

Open to all students regardless of major field who demonstrate sufficient ability on a standard wind or percussion instrument.

OR

MUED 547 - Concert Choir

1 Credit(s)

Open to all qualified students with repertoire selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions.

OR

MUED 550 - Orchestra

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard orchestral instrument.

Note:

An on-campus residency during the first two semesters of the program is required for completion of courses in the concentration area. Please contact Dr. Matthew Schildt (mschildt@adams.edu) with any questions.

Master of Arts in Public Administration

Go to: Business

This is a fully online 36 credit master's degree offered with the option of either two tracks: Applied Public Administration or General Public Administration.

The program is designed for professionals who are already working in the public and non-profit sectors or pre-professionals who want to start a career in public service. The program mixes skills-based coursework with real practical experience working in public agencies. It will prepare its graduates to work in positions in the federal, state, and local government as well as non-profit organizations.

The degree is delivered through semester based, interactive, online courses. The program, which can be completed in 2 years, is designed for students who are also working full-time. This MA degree can lead to career advancement for public servants who want to move into management positions. It will also provide the skill development necessary for public managers to do their jobs more effectively.

Program Goals

- Provide a high quality, low cost, master's degree focusing on public administration.
- Provide students with maximum flexibility through use of fully online delivery.
- Employ a curriculum that mixes skills based course work with real practical experiences.
- Prepare pre-professional students with the skills to enter the public service.
- Provide professionals already working in public administration with the skills to advance their careers.

Track 1: Applied Public Administration

Required Core

MPA 500 - Introduction to Public Administration

3 Credit(s)

An introductory survey to the field of public administration, especially historical, political, and organizational approaches to ethical and reflective professional practice.

MPA 503 - Applied Research Methods in Public Administration

3 Credit(s)

This course provides an introduction to the major research methods used in public administration. The goal of the course is to acquaint students with the basic approaches, concepts, and tools of research with a focus on their application in public and non-profit settings.

MPA 510 - Practicum

1 Credit(s)

This course provides students with actual experiences, through projects and practical activities, in the practice of public administration in a professional setting. Students will work with practicing administrators in public/non-profit agencies under the direction of a workplace supervisor. This practicum will require students to work at least 50 hours and demonstrate an ability to apply the concepts and skills learned in the classwork to a professional setting through artifacts tied to MPA 503 and MPA 508.

MPA 516 - Practicum II

1 Credit(s)

This course provides students with actual experiences, through projects and practical activities, in the practice of fiscal project, and/or human resources management in a professional setting. Students will work with practicing administrators in public/non-profit agencies under the direction of a workplace supervisor. This practicum will require students to work at least 50 hours and demonstrate an ability to apply the concepts and skills learned in the classwork to a professional setting through artifacts tied to MPA 512 and MPA 514.

MPA 520 - Practicum III

3 Credit(s)

This course provides students with actual experiences, through projects and practical activities, in the assessment of public policies and procedures in a professional setting. Students will work with practicing administrators in public/non-profit agencies under the direction of a workplace supervisor. This practicum will require students to work at least 150 hours and demonstrate an ability to apply the concepts and skills learned in the classwork to a professional setting.

MPA 528 - Practicum IV

1 Credit(s)

This course provides students with actual experiences, through projects and practical activities, in a professional setting. The practicum will focus on elements of community planning and economic development. Students will work with practicing administrators in public/non-profit agencies under the direction of a workplace supervisor. The practicum will require students to work at least 50 hours and demonstrate an ability to apply the concepts and skills learned in the classwork to a professional setting through artifacts ties to MPA 524 and 526.

MPA 530 - Public Policy Analysis

3 Credit(s)

This course examines the multiple ways in which public policy is made in the U.S. including the various processes of policy making and the actors and institutions involved in overseeing those processes. It also examines a number of the pressing policy issues facing the nation today as well as some of the solutions that have been tried or proposed.

MPA 533 - Organizational and Community Behavior

3 Credit(s)

Examines the organizational and community context in which public manager must operate. Including a focus on why people behave the way they do in organizations and what can be done to change those behaviors. This includes the most effective communications strategies used in dealing with community groups, advisory boards and councils. The course will review a wide range of situations and examples of human behavior and connect them in foundational theories and effective practical management methods.

MPA 550 - Public Administration Capstone

3 Credit(s)

The Capstone Course offers each student the opportunity to demonstrate mastery of the theory and practice of public administration by applying the knowledge and skills gained in the MPA and MBA-PA programs. This involves completing a portfolio project reflecting the cumulative knowledge gained from these experiences.

Prerequisite(s):

Admission to MPA or MBA program

Elective Coursework - 15 Credits from MPA or MBA program

Track 2: General Public Administration

Required Core

MPA 500 - Introduction to Public Administration

3 Credit(s)

An introductory survey to the field of public administration, especially historical, political, and organizational approaches to ethical and reflective professional practice.

MPA 503 - Applied Research Methods in Public Administration

3 Credit(s)

This course provides an introduction to the major research methods used in public administration. The goal of the course is to acquaint students with the basic approaches, concepts, and tools of research with a focus on their application in public and non-profit settings.

MPA 530 - Public Policy Analysis

3 Credit(s)

This course examines the multiple ways in which public policy is made in the U.S. including the various processes of policy making and the actors and institutions involved in overseeing those processes. It also examines a number of the pressing policy issues facing the nation today as well as some of the solutions that have been tried or proposed.

MPA 533 - Organizational and Community Behavior

3 Credit(s)

Examines the organizational and community context in which public manager must operate. Including a focus on why people behave the way they do in organizations and what can be done to change those behaviors. This includes the most effective communications strategies used in dealing with community groups, advisory boards and councils. The course will review a wide range of situations and examples of human behavior and connect them in foundational theories and effective practical management methods.

MPA 550 - Public Administration Capstone

3 Credit(s)

The Capstone Course offers each student the opportunity to demonstrate mastery of the theory and practice of public administration by applying the knowledge and skills gained in the MPA and MBA-PA programs. This involves completing a portfolio project reflecting the cumulative knowledge gained from these experiences.

Prerequisite(s):

Admission to MPA or MBA program

Elective Coursework - 21 Credits from MPA or MBA program

Master of Arts in United States History

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

The History, Anthropology, Philosophy, Political Science, Spanish (HAPPSS) Department offers a Master of Arts in United States History. The goals of the United States history program are to satisfy students' desires for additional directed study of United States history, to assist teachers in meeting highly qualified status under NCLB, and to provide access for students to earn an M.A. degree before going on to doctoral studies. All professors in this program hold Ph.D.s and are committed to developing and encouraging students to achieve their academic potential. The degree is delivered using a mixture of face-to-face and Internet courses.

Degree Requirements

Required Core

HIST 500 - Historiography and Historical Methods

3 Credit(s)

A historiographical seminar in which students learn and demonstrate a mastery of a variety of methods historians use to understand the past.

HIST 591 - Thesis

3 Credit(s)

This course is the culminating experience for the MA program in which students demonstrate mastery of the discipline by producing an acceptable Master's Thesis. Successful completion of 21 hours of graduate-level work in History.

Context and Content

24 credit hours from the following menu selected in consultation with department chair.

HIST 501 - State History

3 Credit(s)

A graduate-level survey of the history of a particular state, with emphasis on how meta and national phenomenon impacted a given state, as well as events and phenomena unique to the state.

HIST 505 - American West

3 Credit(s)

This course is a survey of the American West with an emphasis on interpretation by historians. Admission to the Master of Arts program is required.

HIST 507 - Latino History

3 Credit(s)

This course will give special attention to the loss of land in the late nineteenth century, community formation during the early twentieth century, and the Chicano Movement of the late 1960's and early 1970's. At a deeper level, this course explores both the strengths and weaknesses in the relevant historiography and fundamental questions about the practice of history and the forces that form and serve as custodians of memory.

HIST 510 - Teaching History

3 Credit(s)

This course explores best practices and trends in the teaching of history at the secondary and collegiate levels.

HIST 520 - Topics in World History

3 Credit(s)

This course will involve intensive reading, analysis, and discussion of selected topics/controversies in world history.

HIST 521 - Women in US History

3 Credit(s)

This course examines the role of women in American history with special emphasis on how the story of women is told by historians over time. It examines not only the lives of many famous white women, but also the experiences of women from various ethnicities and economic backgrounds. In addressing how Americans construct their understanding of women's lives in the U.S., this course will also reassess how focusing on women's lives might alter one's understanding of the broader patterns and interpretations of American history.

HIST 522 - Gilded Age and Progressive Era

3 Credit(s)

This course examines the United States from the end of Reconstruction through World War I. The Gilded Age covers the period of intense economic expansion after the Civil War, and examines the expansion of big business, the growth of the labor movement, and the crisis of the 1890's. The second half of the course studies the period of intense reform known as the Progressive Era, and concludes with U.S. participation in the First World War. Topics will include American overseas expansion, immigration, the suffrage movement, and the rise of governmental economic regulation.

HIST 526 - U.S. in the Era of World Wars

3 Credit(s)

A study of the United States History during World War I and World War II, or focused on either War, with special attention devoted to diplomatic, social, and political developments of the specific period under study with emphasis on the impact of immigration, urbanization, technology, and America's increasing involvement in world affairs.

HIST 540 - U.S. Presidency

3 Credit(s)

A study of the United States Presidency from 1789 to the present., with special attention devoted to the changing scope and function of the office in the changing context of broader American History. Other topics of particular interest are the key figures who have altered the institution and the role of crises in changing the scope and functioning of the office. The course with separate subtitles can be repeated no more than 3 times.

HIST 546 - Borderlands

3 Credit(s)

This course explores borderlands as a site of historical scholarship with special emphasis on the southwestern United States and the United States-Mexico border.

HIST 550 - US Sports History

3 Credit(s)

A study of the history of sports and leisure in the United States Presidency from colonial times to the present, with special attention devoted to the changing social context in which sporting activities have taken place. Other topics of particular interest are the roles of race and gender in shaping the world of sport, and the roles of marketing, professional organizations, and media such as television in examining how sport has become part of the fabric of American life. This course views sport both as reflective of broader trends in American society but also as a catalyst of change.

HIST 551 - Atlantic History

3 Credit(s)

This course explores the Atlantic world as a field of historical scholarship with a special focus on European colonization of the Americas, African slavery, and the Age of Revolutions.

HIST 563 - Civil War and Reconstruction

3 Credit(s)

A graduate-level study of the antebellum South, sectional discord, armed conflict, and reconstruction of the Union.

HIST 568 - U.S.-Latin American Relations

3 Credit(s)

This course will examine U.S. - Latin Relations from the Monroe doctrine to the present with a more intensive and analytical focus on cold-war relations and the shift to post-cold-war dynamics.

HIST 579 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

HIST 590 - History Practicum

3 Credit(s)

A graduate-level practicum in the development and of United States History curriculum (education and public history).

HIST 592 - Workshop

0.5 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

HIST 599 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Head.

Master of Business Administration, Finance Emphasis

Master of Business Administration

Online delivery allows today's busy working professional the opportunity to participate in a program without putting your career on hold. Whether you travel extensively, have a job that prevents you from attending traditional on-campus classes, or have family obligations that limit your available time, the flexibility of online delivery brings the Adams State University M.B.A. program to you, on your schedule.

The online M.B.A. curriculum is well suited for people with either business or non-business undergraduate degrees. You'll spend six continuous semesters, or two years, learning key business, health administration, leadership, and public administration concepts to make you more effective in your current job or to open new employment opportunities.

The online M.B.A. curriculum offers a level of quality and rigor consistent with Adams State's reputation for excellence as an educational institution. The distance M.B.A. program welcomes students from around the globe.

Master of Business Administration Core Requirements

BUS 500 - Leadership Skills for Managers

3 Credit(s)

This course teaches practical skills required for effective management at all levels of an organization, and is designed to increase a learner's understanding of key concepts and procedural guidelines related to organizational management, human resource, and leadership. The purpose is to be equipped to deal effectively with managerial challenges dealing with people.

BUS 505 - Creating Consumer Value

3 Credit(s)

This course presents learners with a comprehensive approach to creating consumer value. This includes marketing and brand management in for-profit firms as well as identifying and meeting consumer needs in non-profit and governmental organizations. Topics include segmentation and targeting of consumers; the positioning levers of product, price, promotion, and distribution; and brand management.

ECON 505 - Managerial Economics

3 Credit(s)

This course demonstrates how economics theory is applied to national and international managerial decision-making. The course covers topics such as demand analysis, production and cost functions, market structure, managerial understanding of public policy, and international trade finance topics. Pre-req.-Undergraduate Economics course with a grade of C or higher.

BUS 520 - Managerial Accounting

3 Credit(s)

This course provides a review of financial reporting standards and statements and analysis of those financial statements. Managerial accounting principles will be explored as well as budgeting, cost allocation, accumulation, cost behavior, and relevant costs; revenues are approached from a managers' perspective. Prerequisite: undergraduate accounting course with a grade of C or higher.

BUS 525 - Financial Analysis

3 Credit(s)

Students will embark on studying basic financial principles and enhance that with understanding various valuation concepts and methods. Emphasis is also placed on capital budgeting and long term financing as well as working capital management. The course will blend time-tested finance principles and the latest advancements with the practical perspectives of the financial manager. Prerequisite: undergraduate accounting course with a grade of C or higher.

Prerequisite(s):

BUS 520 Minimum Grade: C

BUS 540 - Strategy

3 Credit(s)

In this course, learners examine tools and techniques for competitive analysis, strategic planning, and strategy implementation. Learners gain knowledge of the tools and concepts needed to develop a business strategy including macro environmental scanning, industry and competitive analysis, value chain analysis, SWOT analysis, identification of critical success factors and driving forces, and development of strategic alternatives and recommendations.

Finance Emphasis

BUS 531 - Multinational Financial Management

3 Credit(s)

Multinational Financial Management course has two emphases: one on the basics and the other on a managerial perspective. As international capital markets of the world become more integrated, an understanding of international financial management has become important for U.S. corporate decision making. This course provides students with groundwork for analysis that will serve them well in their future careers. The decision-making process in this course will teach students how to make knowledgeable managerial decisions in an ever changing global financial setting.

Prerequisite(s):

BUS 525 Minimum Grade: B-

BUS 532 - Portfolio Management and Investment Analysis

3 Credit(s)

The unifying theme of this course is that security markets are almost efficient, meaning that most securities are priced appropriately given their risk and return attributes. The course is a blend of practical and theoretical coverage combined with a complete digital solution to focus on making investment decisions from the perspective of the portfolio manager. This course also covers the Series 7 License and is designed to prepare the student for taking the National Association of Securities Dealers General Securities Representative Exam.

Prerequisite(s):

BUS 525 Minimum Grade: B-

BUS 533 - Financial Markets and Institutions

3 Credit(s)

This course is a great reflection of the latest developments from the field of financial markets. It helps students understand why financial markets exist, how financial institutions serve these markets, and what services those institutions offer. The course also focuses on the management, performance, and regulatory aspects of financial institutions and explores the functions of the Federal Reserve System, as well as the major debt and equity security markets, and derivative security market.

Prerequisite(s):

BUS 525 Minimum Grade: B-

BUS 534 - Finance Capstone

3 Credit(s)

This course uses a case study approach to solve complicated corporate problems and links managerial decisions to capital markets and the expectations of investors. Students will gain a deeper understanding of financial issues that they encounter in their professional career. At the core of the cases is a valuation task that requires students to look to financial markets for guidance in resolving the case problem. The focus on value helps the students understand the impact of the firm on the world around it.

Prerequisite(s):

BUS 525 Minimum Grade: B-
AND

BUS 531 Minimum Grade: B-

AND

BUS 532 Minimum Grade: B-

AND

BUS 533 Minimum Grade: B-

Master of Business Administration, Healthcare Emphasis

Go to: Business

Master of Business Administration

Online delivery allows today's busy working professional the opportunity to participate in a program without putting your career on hold. Whether you travel extensively, have a job that prevents you from attending traditional on-campus classes, or have family obligations that limit your available time, the flexibility of online delivery brings the Adams State University M.B.A. program to you, on your schedule.

The online M.B.A. curriculum is well suited for people with either business or non-business undergraduate degrees. You'll spend six continuous semesters, or two years, learning key business, health administration, leadership, and public administration concepts to make you more effective in your current job or to open new employment opportunities.

The online M.B.A. curriculum offers a level of quality and rigor consistent with Adams State's reputation for excellence as an educational institution. The distance M.B.A. program welcomes students from around the globe.

Master of Business Administration Core Requirements

BUS 500 - Leadership Skills for Managers

3 Credit(s)

This course teaches practical skills required for effective management at all levels of an organization, and is designed to increase a learner's understanding of key concepts and procedural guidelines related to organizational management, human resource, and leadership. The purpose is to be equipped to deal effectively with managerial challenges dealing with people.

BUS 505 - Creating Consumer Value

3 Credit(s)

This course presents learners with a comprehensive approach to creating consumer value. This includes marketing and brand management in for-profit firms as well as identifying and meeting consumer needs in non-profit and governmental organizations. Topics include segmentation and targeting of consumers; the positioning levers of product, price, promotion, and distribution; and brand management.

ECON 505 - Managerial Economics

3 Credit(s)

This course demonstrates how economics theory is applied to national and international managerial decision-making. The course covers topics such as demand analysis, production and cost functions, market structure, managerial understanding of public policy, and international trade finance topics. Pre-req.-Undergraduate Economics course with a grade of C or higher.

BUS 520 - Managerial Accounting

3 Credit(s)

This course provides a review of financial reporting standards and statements and analysis of those financial statements. Managerial accounting principles will be explored as well as budgeting, cost allocation, accumulation, cost behavior, and relevant costs; revenues are approached from a managers' perspective. Prerequisite: undergraduate accounting course with a grade of C or higher.

BUS 525 - Financial Analysis

3 Credit(s)

Students will embark on studying basic financial principles and enhance that with understanding various valuation concepts and methods. Emphasis is also placed on capital budgeting and long term financing as well as working capital management. The course will blend time-tested finance principles and the latest advancements with the practical perspectives of the financial manager. Prerequisite: undergraduate accounting course with a grade of C or higher.

Prerequisite(s):

BUS 520 Minimum Grade: C

BUS 540 - Strategy

3 Credit(s)

In this course, learners examine tools and techniques for competitive analysis, strategic planning, and strategy implementation. Learners gain knowledge of the tools and concepts needed to develop a business strategy including macro environmental scanning, industry and competitive analysis, value chain analysis, SWOT analysis, identification of critical success factors and driving forces, and development of strategic alternatives and recommendations.

Healthcare Emphasis

HCA 545 - Public Health

3 Credit(s)

This course provides a comprehensive coverage of traditional public health responsibilities- assessing the burden of disease, preventing and controlling health threats, and developing policies and public administration responses to improve health --in a contemporary framework. It covers the basics of administration, including public health law, human resources management, budgeting and financing, and legislative relations in public health.

HCA 550 - Elderly and Managed Care

3 Credit(s)

This course will consider long-term service delivery programs designed to meet the special needs of seniors. The course will include a managerial overview of seniors' housing and care and will analyze the demographics of aging, the role of financing, and the evolving marketplace.

HCA 555 - Health Policy

3 Credit(s)

Critical analysis of federal and state health policy processes, outcomes, and issues. This course allows students to examine the efficiency and effectiveness of health policy issues associated with access, cost, and quality. Emphasis is placed on policy formulation, implementation, assessment, and modification.

Prerequisite(s):

HCA 303 Minimum Grade: C

HCA 590 - Practicum

3 Credit(s)

The MHA Practicum: executive skill development is designed to develop and enhance the skills necessary for success as a healthcare executive through management practice in health care administration. The course provides the students the opportunity to gain practical experience and integrate classroom knowledge and theory in an administrative setting within the health care industry.

OR

HCA 595 - HCA Thesis

3 Credit(s)

The research project serves as a capstone experience as students complete the MBA emphasis area of study. Students will complete a research project involving an introduction to the problem or research question, comprehensive in-depth review of the current literature, research methodology, data collection, and analysis if applicable, and conclusions.

Prerequisite(s):

BUS 515 Minimum Grade: C

Master of Business Administration, Leadership Emphasis

Master of Business Administration

Online delivery allows today's busy working professional the opportunity to participate in a program without putting your career on hold. Whether you travel extensively, have a job that prevents you from attending traditional on-campus classes, or have family obligations that limit your available time, the flexibility of online delivery brings the Adams State University M.B.A. program to you, on your schedule.

The online M.B.A. curriculum is well suited for people with either business or non-business undergraduate degrees. You'll spend six continuous semesters, or two years, learning key business, health administration, leadership, and public administration concepts to make you more effective in your current job or to open new employment opportunities.

The online M.B.A. curriculum offers a level of quality and rigor consistent with Adams State's reputation for excellence as an educational institution. The distance M.B.A. program welcomes students from around the globe.

Master of Business Administration Core Requirements

BUS 500 - Leadership Skills for Managers

3 Credit(s)

This course teaches practical skills required for effective management at all levels of an organization, and is designed to increase a learner's understanding of key concepts and procedural guidelines related to organizational management, human resource, and leadership. The purpose is to be equipped to deal effectively with managerial challenges dealing with people.

BUS 505 - Creating Consumer Value

3 Credit(s)

This course presents learners with a comprehensive approach to creating consumer value. This includes marketing and brand management in for-profit firms as well as identifying and meeting consumer needs in non-profit and governmental organizations. Topics include segmentation and targeting of consumers; the positioning levers of product, price, promotion, and distribution; and brand management.

ECON 505 - Managerial Economics

3 Credit(s)

This course demonstrates how economics theory is applied to national and international managerial decision-making. The course covers topics such as demand analysis, production and cost functions, market structure, managerial understanding of public policy, and international trade finance topics. Pre-req.-Undergraduate Economics course with a grade of C or higher.

BUS 520 - Managerial Accounting

3 Credit(s)

This course provides a review of financial reporting standards and statements and analysis of those financial statements. Managerial accounting principles will be explored as well as budgeting, cost allocation, accumulation, cost behavior, and relevant costs; revenues are approached from a managers' perspective. Prerequisite: undergraduate accounting course with a grade of C or higher.

BUS 525 - Financial Analysis

3 Credit(s)

Students will embark on studying basic financial principles and enhance that with understanding various valuation concepts and methods. Emphasis is also placed on capital budgeting and long term financing as well as working capital management. The course will blend time-tested finance principles and the latest advancements with the practical perspectives of the financial manager. Prerequisite: undergraduate accounting course with a grade of C or higher.

Prerequisite(s):

BUS 520 Minimum Grade: C

BUS 540 - Strategy

3 Credit(s)

In this course, learners examine tools and techniques for competitive analysis, strategic planning, and strategy implementation. Learners gain knowledge of the tools and concepts needed to develop a business strategy including macro environmental scanning, industry and competitive analysis, value chain analysis, SWOT analysis, identification of critical success factors and driving forces, and development of strategic alternatives and recommendations.

Leadership Emphasis

BUS 545 - Leading Entrepreneurial Organizations

3 Credit(s)

Successful organizations emphasize learning to sustain their competitive advantage. This course will study entrepreneurship and intrapreneurship. Areas of emphasis include uncovering the methodologies and characteristics that foster innovations and achieve meaningful change in business that leads to the creation and implementation of profitable business opportunities.

BUS 550 - Technology and Innovation

3 Credit(s)

This course adopts the perspective of a general manager-- an individual charged with diagnosing complex situations and resolving them in ways that enhance organizational performance. The course emphasizes how general management decisions may contribute to the creation and appropriation of economic value through innovation.

BUS 555 - Leading for Results

3 Credit(s)

This course focuses on how leaders mobilize others within their organization to get extraordinary things done. You will analyze what characteristics you need to develop to achieve your own professional goals and reflect on ways you can develop your competencies as a leader.

BUS 560 - Leadership Capstone

3 Credit(s)

This capstone course integrates knowledge gained in the previous graduate business courses. It centers on the theme that organizations achieve sustained success when their managers have astute, timely, strategic game plans, and they implement these plans with proficiency. This class incorporates the "big picture" and cuts across the whole spectrum of business and leadership.

Master of Business Administration, Public Administration Emphasis

Master of Business Administration

Online delivery allows today's busy working professional the opportunity to participate in a program without putting your career on hold. Whether you travel extensively, have a job that prevents you from attending traditional on-campus classes, or have family obligations that limit your available time, the flexibility of online delivery brings the Adams State University M.B.A. program to you, on your schedule.

The online M.B.A. curriculum is well suited for people with either business or non-business undergraduate degrees. You'll spend six continuous semesters, or two years, learning key business, health administration, leadership, and public administration concepts to make you more effective in your current job or to open new employment opportunities.

The online M.B.A. curriculum offers a level of quality and rigor consistent with Adams State's reputation for excellence as an educational institution. The distance M.B.A. program welcomes students from around the globe.

Master of Business Administration Core Requirements

BUS 500 - Leadership Skills for Managers

3 Credit(s)

This course teaches practical skills required for effective management at all levels of an organization, and is designed to increase a learner's understanding of key concepts and procedural guidelines related to organizational management, human resource, and leadership. The purpose is to be equipped to deal effectively with managerial challenges dealing with people.

BUS 505 - Creating Consumer Value

3 Credit(s)

This course presents learners with a comprehensive approach to creating consumer value. This includes marketing and brand management in for-profit firms as well as identifying and meeting consumer needs in non-profit and governmental organizations. Topics include segmentation and targeting of consumers; the positioning levers of product, price, promotion, and distribution; and brand management.

ECON 505 - Managerial Economics

3 Credit(s)

This course demonstrates how economics theory is applied to national and international managerial decision-making. The course covers topics such as demand analysis, production and cost functions, market structure, managerial understanding of public policy, and international trade finance topics. Pre-req.-Undergraduate Economics course with a grade of C or higher.

BUS 520 - Managerial Accounting

3 Credit(s)

This course provides a review of financial reporting standards and statements and analysis of those financial statements. Managerial accounting principles will be explored as well as budgeting, cost allocation, accumulation, cost behavior, and relevant costs; revenues are approached from a managers' perspective. Prerequisite: undergraduate accounting course with a grade of C or higher.

BUS 525 - Financial Analysis

3 Credit(s)

Students will embark on studying basic financial principles and enhance that with understanding various valuation concepts and methods. Emphasis is also placed on capital budgeting and long term financing as well as working capital management. The course will blend time-tested finance principles and the latest advancements with the practical perspectives of the financial manager. Prerequisite: undergraduate accounting course with a grade of C or higher.

Prerequisite(s):

BUS 520 Minimum Grade: C

BUS 540 - Strategy

3 Credit(s)

In this course, learners examine tools and techniques for competitive analysis, strategic planning, and strategy implementation. Learners gain knowledge of the tools and concepts needed to develop a business strategy including macro environmental scanning, industry and competitive analysis, value chain analysis, SWOT analysis, identification of critical success factors and driving forces, and development of strategic alternatives and recommendations.

Public Administration Emphasis

BUS 580 - Public/Nonprofit Management

3 Credit(s)

This course is designed to examine public and nonprofit management. This type of management is driven by mission and/or executive/legislative direction. Students will learn both the theory and practice of public and nonprofit management, using the concept case method and service learning opportunities.

BUS 585 - Public Budgeting and Finance

3 Credit(s)

The course is designed to provide the student with an understanding of the primary financial management issues and decisions that confront senior management in the nonprofit and the public sectors. Students will gain an understanding and examine financial analysis techniques from both a practical and strategic perspective for operating and capital decisions.

BUS 590 - Policy Analysis

3 Credit(s)

This course introduces the study of public policy and analysis. It provides an overview of key policy areas and examines three aspects of public policy study: (a) government institutions and the policy making process, (b) the concepts and methods of policy analysis, and (c) the role of policy analysis in clarifying public problems and helping citizens and policymakers choose from among policy alternatives.

BUS 595 - Public Administration Capstone

3 Credit(s)

The Capstone Course offers each student the opportunity to demonstrate mastery of the theory and practice of public administration by applying the knowledge and skills gained in the MBA-PA program. This involves completing a portfolio project reflecting the cumulative knowledge gained from these experiences.

Master of Science in Kinesiology, Applied Sport Psychology Emphasis (online)

Go to: Department of Kinesiology

This online program comprises 36 credits and offers a wide range of courses and practical experiences in order to provide students the knowledge and skills necessary to become a sport psychology professional. All courses are offered online which allows for greater flexibility and optimum convenience for students who hold full-time careers or cannot relocate. Students can complete the program in two years, which includes all coursework and internships.

Required Courses

KIN 503 - Introduction to Research

3 Credit(s)

This is an introductory research course for graduate students focusing on the area of physical education and human performance. Participants will develop an understanding of the purpose and importance of research in this specific area, overview basic elements of quantitative, qualitative, mixed methods, and action research methods, enhance skills to evaluate and critique problem statement for a specific research study, and gain an appreciation for conducting research.

KIN 506 - Psychology of Coaching

3 Credit(s)

This course will focus on the psychological principles of coaching and explore evidence-based practices in application to coaching. An emphasis will be placed on developing an understanding of human behavior in the sport context and how coaches can apply that knowledge to improve well-being and performance. There will also be a focus on applying these concepts to coaching diverse populations integrated throughout the course.

KIN 509 - Sports Physiology

3 Credit(s)

This course is designed to emphasize background knowledge in Exercise Physiology and Sport Science. Students will learn advanced structure and function of human neuromuscular and cardiovascular systems and develop working knowledge of adaptations made by these systems during training. Students will also learn to apply knowledge learned about external factors affecting these systems including the environmental conditions, nutrition, and ergogenic aids.

KIN 510 - Positive Psychology

3 Credit(s)

A study of positive psychology, specifically looking at well-being as it relates to participants in sport and performance settings.

KIN 520 - Mental Health in Sport

3 Credit(s)

A study of psychological disorders and abnormal human behavior as it relates to participants in sport and performance settings.

KIN 538 - Diversity and Equity in Sport

3 Credit(s)

This course explores aspects of diversity and equity in sport. This course has a two-fold purpose: first, it is designed to provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask questions and think critically about diversity, equity, and inclusion in sport and interaction with society. This course will explore issues around diversity, equity, and inclusion in sport and society.

KIN 550 - Applied Sport Psychology

3 Credit(s)

This course focuses on application of sport psychology principles in practice. This course will focus on the scientist-practitioner model in relation to using evidence-based practices. There will be an emphasis on learning the various mental skills applied to teaching athletes, coaches, and teams; such as motivation, focus, composure, confidence, resiliency, quality practice, well-being, visualization, mastery and team cohesion.

KIN 560 - Mental Strength and Conditioning

3 Credit(s)

This graduate course focuses on advanced techniques and practices of mental strength and conditioning and explores evidence based practices in mental training. Effective coaching strategies, behavioral issues, and personal roles of mental strength coaches that enhance athletic performance will be discussed. This course will focus on the differences between levels in competitive sports, including youth programs, interscholastic, intercollegiate levels, professional/Olympic as well as other areas such as fitness/wellness, military and business.

KIN 570 - Ethics in Applied Sports Psychology

3 Credit(s)

This course will explore ethical and legal issues that applied sport psychology professionals often encounter in their work as teachers, researchers, and practitioners. This course is designed to educate the student on the Association for Applied Sport Psychology (AASP) Code of Ethics, which consists of 6 ethical principles and 26 standards and to meet standards for the required ethics course to sit to take the AASP Certified Mental Performance Consultant exam.

KIN 581 - Case Studies in Applied Sport Psychology

3 Credit(s)

Case studies of real life scenarios in the field of applied sport psychology will serve as discussion points and provide students the opportunity to apply their knowledge and skills in sport psychology to develop methods for how to work with a variety of populations and potential scenarios within applied sport psychology.

KIN 585 - Practicum in Applied Sport Psychology

3 Credit(s)

The practicum is designed to provide a structured practical experience for which the student is preparing. The assignment must be under the supervision of a qualified professional. The practicum is designed to provide the graduate student an actual field based experience in a health, physical education, recreation, or athletic environment. The experience should give the student the opportunity to work with a working professional while enhancing and expanding the skills developed during their undergraduate and graduate programs. The practicum will consist of a minimum of 100 hours.

Prerequisite(s):

Completed a minimum of 18 graduate credit hours including KIN 503 Minimum Grade: C

KIN 586 - Practicum II in Applied Sport Psychology

3 Credit(s)

The practicum is designed to provide a structured practical experience for which the student is preparing. The assignment must be under the supervision of a qualified professional. The practicum is designed to provide the graduate student an actual field-based experience in a health, physical education, recreation, or athletic environment. The experience should give the student the opportunity to work with a working professional while enhancing and expanding the skills developed during their undergraduate and graduate programs. The practicum will consist of a minimum of 100 hours.

Prerequisite(s):

Complete a minimum of 18 graduate credit hours including KIN 503. Minimum Grade: C

Master of Science in Kinesiology, Coaching Emphasis (online)

Go to: Department of Kinesiology

The online Master of Science in Coaching at Adams State University is a 36-credit hour program that offers a wide range of courses and practical experiences in order to provide students with the knowledge and skills necessary to become a more highly qualified coach.

Required Courses

KIN 503 - Introduction to Research

3 Credit(s)

This is an introductory research course for graduate students focusing on the area of physical education and human performance. Participants will develop an understanding of the purpose and importance of research in this specific area, overview basic elements of quantitative, qualitative, mixed methods, and action research methods, enhance skills to evaluate and critique problem statement for a specific research study, and gain an appreciation for conducting research.

KIN 504 - Methods of Coaching

3 Credit(s)

This graduate course focuses on the foundations of athletic coaching and explores evidence based practices in coaching. Effective coaching strategies, behavioral issues, and personal roles of coaches that enhance athletic performance will be discussed. This course will focus on the differences between levels in competitive sports, including youth programs, interscholastic, and intercollegiate levels as well as coaching diverse populations.

KIN 506 - Psychology of Coaching

3 Credit(s)

This course will focus on the psychological principles of coaching and explore evidence-based practices in application to coaching. An emphasis will be placed on developing an understanding of human behavior in the sport context and how coaches can apply that knowledge to improve well-being and performance. There will also be a focus on applying these concepts to coaching diverse populations integrated throughout the course.

KIN 509 - Sports Physiology

3 Credit(s)

This course is designed to emphasize background knowledge in Exercise Physiology and Sport Science. Students will learn advanced structure and function of human neuromuscular and cardiovascular systems and develop working knowledge of adaptations made by these systems during training. Students will also learn to apply knowledge learned about external factors affecting these systems including the environmental conditions, nutrition, and ergogenic aids.

KIN 520 - Mental Health in Sport

3 Credit(s)

A study of psychological disorders and abnormal human behavior as it relates to participants in sport and performance settings.

KIN 527 - Sport Law

3 Credit(s)

This course is designed to provide the student with an understanding of the legal issues involved in supervision, management, and conduct in sport and recreation.

KIN 538 - Diversity and Equity in Sport

3 Credit(s)

This course explores aspects of diversity and equity in sport. This course has a two-fold purpose: first, it is designed to provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask questions and think critically about diversity, equity, and inclusion in sport and interaction with society. This course will explore issues around diversity, equity, and inclusion in sport and society.

KIN 539 - Strength and Conditioning

3 Credit(s)

This course is designed to provide information relative to the basic foundation of coaching sport conditioning including muscle physiology, bioenergetics, training methodology, exercise technique, program design, and facility management. Students will be given the opportunity to develop a general strength training program for a specific sport and to demonstrate their knowledge relative to proper lifting techniques and training procedures.

Prerequisite(s):

KIN 509 Minimum Grade: C

KIN 556 - Strategic Management / Leadership

3 Credit(s)

This course will provide a detailed overview of strategic management and leadership with an emphasis on the management of sport organizations in the commercial, public and not for profit sectors. This course will enable learners to evaluate the relevance of distinctive strategic management tools and consider how these can be applied to support the development of effective sport and sport-related organizations. Students also will examine the principles of effective leadership and reflect on their personal leadership style, the skills and competencies that support the style as well as examining plans for personal and professional development.

Prerequisite(s):

BUS 500 Minimum Grade: C

KIN 584 - Exercise Science Practicum

3 Credit(s)

The practicum is designed to provide a structured practical experience for which the student is preparing. The assignment must be under the supervision of a qualified professional. The practicum is designed to provide the graduate student an actual field-based experience in a health, physical education, recreation, or athletic environment. The experience should give the student the opportunity to work with a working professional while enhancing and expanding the skills developed during their undergraduate and graduate programs. The practicum will consist of a minimum of 150 hours.

Prerequisite(s):

Complete a minimum of 18 graduate credit hours including KIN 503 and KIN 543 (minimum grade C).

Plus 6 KIN Elective Credits (advisor approved)

Master of Science in Kinesiology, Exercise Science Emphasis (on-campus)

Go to: Department of Kinesiology

The Master of Science degree in Exercise Science at Adams State is a 36-credit program that offers a wide range of courses and practical experiences in order to prepare students for careers in allied health and sport performance fields. Students can complete the campus-based program in two years which includes coursework, practicum, and research requirements.

A graduate degree in Exercise Science can prepare individuals for leadership roles in corporate fitness, clinical testing, personal training, research, strength and conditioning, or preparation for doctoral-level programs in exercise science.

Required Core

KIN 503 - Introduction to Research

3 Credit(s)

This is an introductory research course for graduate students focusing on the area of physical education and human performance. Participants will develop an understanding of the purpose and importance of research in this specific area, overview basic elements of quantitative, qualitative, mixed methods, and action research methods, enhance skills to evaluate and critique problem statement for a specific research study, and gain an appreciation for conducting research.

KIN 543 - Statistical Methods in Kinesiology

3 Credit(s)

This course is designed as an introduction of the statistics used in measurement and evaluation, and provides opportunities for students to analyze current research in Kinesiology.

Prerequisite(s):

KIN 509 Minimum Grade: B

KIN 584 - Exercise Science Practicum

3 Credit(s)

The practicum is designed to provide a structured practical experience for which the student is preparing. The assignment must be under the supervision of a qualified professional. The practicum is designed to provide the graduate student an actual field-based experience in a health, physical education, recreation, or athletic environment. The experience should give the student the opportunity to work with a working professional while enhancing and expanding the skills developed during their undergraduate and graduate programs. The practicum will consist of a minimum of 150 hours.

Prerequisite(s):

Complete a minimum of 18 graduate credit hours including KIN 503 and KIN 543 (minimum grade C).

Exercise Science

KIN 529 - Physiology of Exercise

3 Credit(s)

An advanced overview of the physiological basis of physical education and athletics. The effects of exercise on various systems will be considered. Practical application of exercise science to physical fitness and athletic training and performance will be emphasized.

KIN 530 - Human Performance Lab

3 Credit(s)

The Human Performance Lab Internship in the department of KIN is a planned, meaningful work experience. The primary purpose of the human performance lab internship is to allow students the opportunity for hands-on use of various methods of and equipment for exercise/ fitness testing, and to work directly with test subjects so that he/ she is able to apply some of the principles learned in the Physiology of Exercise course.

Prerequisite(s):

KIN 529

Co-requisite(s): KIN 529

KIN 539 - Strength and Conditioning

3 Credit(s)

This course is designed to provide information relative to the basic foundation of coaching sport conditioning including muscle physiology, bioenergetics, training methodology, exercise technique, program design, and facility management. Students will be given the opportunity to develop a general strength training program for a specific sport and to demonstrate their knowledge relative to proper lifting techniques and training procedures.

Prerequisite(s):

KIN 509 Minimum Grade: C

KIN 540 - Biomechanics

3 Credit(s)

This course will involve the study of the anatomical and mechanical principles underlying human movement. Practical application of biomechanical principles in human movement and various sport activities will be emphasized.

KIN 545 - Exercise and Sport Nutrition

3 Credit(s)

An advanced study of nutrition as it applies to exercise and sport. Application of nutrition practices to health, fitness and performance will be explored, as well as issues of supplementation, drug abuse, weight loss/gain strategies, and metabolic nutritional requirements for a variety of sports and exercising individuals.

Prerequisite(s):

KIN 529 Minimum Grade: B

Plus 6 KIN Elective Credits as approved by your Advisor

Plus 1 of the following options

Option 1 - Masters Thesis

KIN 593 - Master's Thesis

6 Credit(s)

This course represents the culminating experience for the graduate student in the Master of Science in Exercise Science program. This course will provide a practical and thorough experience working through a professionally designed research project. It will include a written and oral presentation of the thesis proposal, as well as a written and oral defense of the completed Masters thesis. This course will be taken in the last year of the students program at Adams State University.

Prerequisite(s):

KIN 503 Minimum Grade: C

AND

KIN 543 Minimum Grade: C

Option 2 - Capstone

KIN 596 - Capstone Project

3 Credit(s)

This course is designed to integrate coursework into a capstone experience. It is an applied research course requiring students to utilize the tools and information from all the students coursework into a timely, useful capstone project in cooperation with their professional needs. This course is designed to integrate coursework into a capstone experience. It is an applied research course requiring students to utilize the tools and information from all the students coursework into a timely, useful capstone project in cooperation with their professional needs.

Prerequisite(s):

KIN 503 Minimum Grade: C

AND

KIN 543 Minimum Grade: C

- 1 KIN elective course as approved by your advisor

Master of Science in Kinesiology, Sport Administration Emphasis (online)

Go to: Department of Kinesiology

The online Masters of Science in Sport Administration at Adams State University is a 36-credit program that offers a wide range of courses and practical experiences in order to prepare students for employment in sport administration

related careers. The Sport Administration Emphasis has two options: a Thesis option and a capstone option. The Thesis option will provide students the opportunity to further their research interest and prepare them for a doctoral program in sport administration. Students who do not want to pursue a Thesis may continue with the capstone option.

Required Core

KIN 503 - Introduction to Research

3 Credit(s)

This is an introductory research course for graduate students focusing on the area of physical education and human performance. Participants will develop an understanding of the purpose and importance of research in this specific area, overview basic elements of quantitative, qualitative, mixed methods, and action research methods, enhance skills to evaluate and critique problem statement for a specific research study, and gain an appreciation for conducting research.

KIN 585 - Practicum in Applied Sport Psychology

3 Credit(s)

The practicum is designed to provide a structured practical experience for which the student is preparing. The assignment must be under the supervision of a qualified professional. The practicum is designed to provide the graduate student an actual field based experience in a health, physical education, recreation, or athletic environment. The experience should give the student the opportunity to work with a working professional while enhancing and expanding the skills developed during their undergraduate and graduate programs. The practicum will consist of a minimum of 100 hours.

Prerequisite(s):

Completed a minimum of 18 graduate credit hours including KIN 503 Minimum Grade: C

Sport Administration Requirements

BUS 500 - Leadership Skills for Managers

3 Credit(s)

This course teaches practical skills required for effective management at all levels of an organization, and is designed to increase a learner's understanding of key concepts and procedural guidelines related to organizational management, human resource, and leadership. The purpose is to be equipped to deal effectively with managerial challenges dealing with people.

KIN 505 - Sports Marketing and Public Relations

3 Credit(s)

This course prepares students with the tools needed to develop effective marketing and public relations strategies for sports and athletic programs. Topics such as marketing, advertising, public relations strategies, consumer behavior, licensing, and sponsorship will be explored.

KIN 515 - Administration of Sport

3 Credit(s)

This course is designed to teach students the important principles, concepts, research, and theories of managing a sport organization. Students will develop the ability to apply the management principles to interscholastic, intercollegiate and professional and Olympic sports. Students will learn the fundamental principles such as: organizational development, marketing, human resources, strategic planning, sport culture, media relations, fundraising, event management, and leadership as it relates to sport.

Prerequisite(s):

BUS 500

BUS 520 - Managerial Accounting

3 Credit(s)

This course provides a review of financial reporting standards and statements and analysis of those financial statements. Managerial accounting principles will be explored as well as budgeting, cost allocation, accumulation, cost behavior, and relevant costs; revenues are approached from a managers' perspective. Prerequisite: undergraduate accounting course with a grade of C or higher.

KIN 525 - Facilities/Event Management

3 Credit(s)

This course introduces graduate students to the discipline of facility and event management as they relate to the sport, recreation, and leisure industries. Key topics will include planning, designing, managing, scheduling, maintaining, and supervising sport facilities. In addition, students will become familiar with the techniques and strategies needed to plan, promote, manage, and evaluate special sport and sport-related events.

KIN 527 - Sport Law

3 Credit(s)

This course is designed to provide the student with an understanding of the legal issues involved in supervision, management, and conduct in sport and recreation.

KIN 533 - Financing Sport

3 Credit(s)

This course applies financial and economic principles to various professional, collegiate, or high school level sport programs as well as exercise-related settings. The course will provide the student with a practical background regarding the principles of financial management, economic theory, and financial systems for the purpose of planning, administering, reporting, and evaluating the financial performance of a sport organization.

Prerequisite(s):

KIN 515 AND BUS 520

KIN 556 - Strategic Management / Leadership

3 Credit(s)

This course will provide a detailed overview of strategic management and leadership with an emphasis on the management of sport organizations in the commercial, public and not for profit sectors. This course will enable learners to evaluate the relevance of distinctive strategic management tools and consider how these can be applied to support the development of effective sport and sport-related organizations. Students also will examine the principles of effective leadership and reflect on their personal leadership style, the skills and competencies that support the style as well as examining plans for personal and professional development.

Prerequisite(s):

BUS 500 Minimum Grade: C

Capstone Option

KIN 538 - Diversity and Equity in Sport

3 Credit(s)

This course explores aspects of diversity and equity in sport. This course has a two-fold purpose: first, it is designed to provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask questions and think critically about diversity, equity, and inclusion in sport and interaction with society. This course will explore issues around diversity, equity, and inclusion in sport and society.

KIN 596 - Capstone Project

3 Credit(s)

This course is designed to integrate coursework into a capstone experience. It is an applied research course requiring students to utilize the tools and information from all the students coursework into a timely, useful capstone project in cooperation with their professional needs. This course is designed to integrate coursework into a capstone experience. It is an applied research course requiring students to utilize the tools and information from all the students coursework into a timely, useful capstone project in cooperation with their professional needs.

Prerequisite(s):

KIN 503 Minimum Grade: C

AND

KIN 543 Minimum Grade: C

Thesis Option

KIN 591 - Thesis Proposal

3 Credit(s)

This course represents the first part of a two-part culminating experience for the graduate student in Kinesiology. It is intended that his course will provide a practical and thorough experience working through a professionally designed research project. Completion of at least 18 graduate KIN credits are also required prior to course registration.

Prerequisite(s):

KIN 503 Minimum Grade: C

AND

KIN 543 Minimum Grade: C

KIN 593 - Master's Thesis

6 Credit(s)

This course represents the culminating experience for the graduate student in the Master of Science in Exercise Science program. This course will provide a practical and thorough experience working through a professionally designed research project. It will include a written and oral presentation of the thesis proposal, as well as a written and oral defense of the completed Masters thesis. This course will be taken in the last year of the students program at Adams State University.

Prerequisite(s):

KIN 503 Minimum Grade: C

AND

KIN 543 Minimum Grade: C

Total Program Hours: 36

Doctor of Philosophy in Counselor Education and Supervision

- Go to: Counseling and Counselor Education

The Ph.D. in Counselor Education and Supervision prepares graduates to

- Work as counselor educators and supervisors, researchers and practitioners in academic and clinical settings.
- Extend the knowledge base of the counseling profession in a climate of scholarly inquiry.
- Publish and/or present the results of scholarly inquiry.
- Inform professional practice by generating new knowledge for the profession through dissertation or comparable research projects focused on areas relevant to counseling practice, counselor education, and/or supervision.
- Assume positions of leadership in the counseling profession and/or their area(s) of specialization.

Counselor Education and Supervision students at Adams State University will be

- Prepared to teach select courses in counseling skill, theory, ethics, research, assessment, group, supervision, instructional theory, and career.
- Knowledgeable and skilled in the practice of advanced clinical counseling.
- Knowledgeable and competent in cultural diversity.

- Experienced in online course development, delivery, and counseling supervision.
- Prepared to teach courses in the CACREP core.
- Prepared to supervise counselors and counseling students who provide individual and group counseling.
- Experienced in developing and conducting research.
- Experienced in presenting research results at state, regional, and national conferences.
- Experienced in writing for professional publications.
- Prepared to evaluate counselor education programs and clinical counseling sites.
- Experienced as professional counseling leaders, mentors, practitioners, and consultants.
- Experienced as active change advocates.

Degree Requirements

The Doctor of Philosophy program in Counselor Education and Supervision requires a minimum of 60 semester hours as described below. However, the order of the course offering is subject to change. Students must enter the doctoral program with a master's degree in counseling from a CACREP accredited program. If the student's degree is from a non-CACREP program, additional hours will be assessed.

COUN 705 - Advanced Theories and Career

3 Credit(s)

This course examines several major counseling and career theories that inform current counseling practice. Students will have an opportunity to compare and analyze and evaluate the compatibility and effectiveness of counseling theories in practice, including evidence based practices, and ethical and culturally relevant practice in multiple clinical settings. Students will demonstrate knowledge and application of major theories pertaining to the principles and practices of counseling and career development to include the conceptualization of clients from multiple theoretical perspectives.

COUN 708 - Quantitative Research Method

3 Credit(s)

This course examines advanced quantitative research models and methods of instrument design, such as experimental and quasi-experimental designs. Students will gain knowledge and skill in developing quantitative research questions appropriate for professional research, designing a quantitative research study, and submitting research proposals for human subjects/institutional review board reviews. Students will also be introduced to writing for publication. The course will also address ethical and diversity issues involved in research design, measurement, and implementation.

Prerequisite(s):

Admission to the doctoral program

COUN 710 - Supervision and Consultation

3 Credit(s)

Theoretical and applied aspects of the human learning process related to clinical supervision and consultation, with an emphasis on the concepts, issues, and strategies of applied clinical supervision and its delivery will be explored in this

course. This course provides an opportunity for students to synthesize and apply knowledge of supervision and the consultations process as they develop their personal style for supervision and consultation. Students will be exposed to current theories, models, and topics related to supervision and consultation. Ethical and legal issues in supervision and consultation will be addressed.

COUN 712 - Qualitative Research Methodology

3 Credit(s)

This course examines advanced qualitative research design and approaches and explores and contrasts philosophical assumptions of qualitative and quantitative research. Students will gain knowledge and skill in developing qualitative research questions appropriate for professional research, designing a qualitative research study, and submitting research proposals for human subjects/ institutional review board reviews. Students will also be introduced to writing for publication. The course will also address ethical and diversity issues involved in research design, sampling, and implementation. Areas of emphasis include specific methodologies, such as phenomenology and grounded theory, in addition to other common and emergent qualitative approaches in counselor education.

COUN 715 - Advanced Multicultural & Ethical Issues

3 Credit(s)

This course will provide an understanding of the cultural context of relationships, issues and trends in a multicultural and diverse society using relevant professional ethical codes and principles. Emphasis will be placed on delivering culturally and ethically relevant counseling in multiple settings, conducting supervision, and conducting and reviewing research. Cultural and ethically relevant leadership and advocacy practices will be discussed. Students will explore current social and cultural issues, including social change theory and advocacy action planning. The role of racial, ethnic, and cultural heritage; nationality; socioeconomic status; family structure; age; gender; sexual orientation; religious and spiritual beliefs; occupation; physical and mental status; local, regional, national, and international perspectives; and equity issues in counselor education programs, counseling supervision, and counseling research.

COUN 717 - Instructional Theory in Counselor Education

3 Credit(s)

This course prepares students to teach counseling and related courses. Topics covered are learning theories, retention of material, motivation, classroom instructional strategies and techniques, and assessment of learning from the core learning expectations. This course will provide an overview of the history and development of counselor education with an examination of the theoretical orientation and practice skills necessary to function effectively as a counselor educator. Students will examine their personal philosophy of teaching and learning and demonstrate the ability to design, deliver, and evaluate methods appropriate to course objectives.

COUN 720 - Advanced Group Counseling

3 Credit(s)

This course focuses on a critical analysis of advanced group counseling theories, approaches, literature, and modalities applicable to working with groups. Students will engage in experiential learning focused on in-depth exploration of their personal approach to group leadership and supervision. Students will also develop advanced group counseling leadership skills and identify strategies based upon the special needs and characteristics of diverse client groups.

COUN 722 - Quantitative Data Analysis

3 Credit(s)

This course examines univariate and multivariate statistics most frequently used in psychological research. Students will learn how to read and interpret these statistics in published psychological research as well as how to apply them to the analysis of their own research projects. Students will learn how to select the appropriate statistical analyses, collect data in a controlled manner, analyze the data, and interpret the results. This course emphasizes skill in applying advanced statistical techniques to social science research, interpreting results of statistical analyses, and data analyses and presentations. This course will also address writing for professional publications and conference proposals, as well as ethical and diversity issues involved in analyzing and publishing research.

Prerequisite(s):

COUN 708

COUN 723 - Qualitative Data Analysis

3 Credit(s)

This course provides an in-depth exploration of qualitative research methodologies and the development of advanced-level qualitative research skills. Advanced topics in qualitative research are considered to foster critical thinking skills and to inform a long-term research agenda. Epistemological assumptions, theoretical considerations, data collection, and analytic procedures for grounded theory, phenomenological, narrative, case study, ethnographic research designs, and other emergent research practices and processes are reviewed. This course emphasizes skill in interpreting the results of qualitative data analyses; students will apply knowledge and skill to the analysis of their own research projects. This course will also address writing for professional publications and conference proposals and ethical and diversity issues involved in analyzing and publishing research.

Prerequisite(s):

COUN 712

COUN 725 - Seminar in Counselor Education

3 Credit(s)

This course is designed to facilitate the student's awareness and knowledge in current issues related to counselor educators. Students will discuss and present current issues in the field, providing a format for debate and discussion. The course will increase the student's awareness of the ever-changing areas of social and educational change.

COUN 727 - Advanced Practicum in Counseling

3 Credit(s)

This advanced supervised practicum in counseling will enable doctoral-level students to develop and/or refine advanced counseling skills and conceptually link counselor practice and supervision. The doctoral practicum focuses on additional supervised clinical counseling experience beyond the supervised experience completed in the student's master's degree program. Students are required to participate in a supervised doctoral-level practicum of a minimum of 100 hours in counseling, of which 40 hours must be in direct service with clients. The nature of the doctoral-level practicum experience is to be determined in consultation with program faculty and/or a doctoral committee. Students will participate in weekly group supervision with a faculty member and other practicum students.

COUN 729 - Seminar: Leadership & Advocacy

3 Credit(s)

This leadership focused course will focus on current issues in counseling to include the role of ethical and legal consideration in counselor education and supervision. Focus will be on the theories, skills and models of leadership as well as strategies for responding to community, national, and international crises and disasters. Students will explore current topical and political issues in counseling and how those issues affect the daily work of counselors and the counseling profession. Students must demonstrate the ability to provide leadership or contribute to leadership efforts of professional organizations and/or counseling programs and the ability to advocate for the profession and its clientele.

COUN 735 - Advanced Assessment and Program Evaluation

3 Credit(s)

This course serves as an advanced course on the principles of assessment, testing, and evaluation. Students will examine and critique assessment instruments used in counseling and counselor education. Students will develop knowledge and skills to prepare them for teaching assessment at the Master level. Additionally, this course focuses on the concepts and processes related to program evaluation and the steps in performing a program evaluation. Emphasis is on the application and demonstration of critical thinking skills related to analyzing and evaluating programs. Students will also gain foundational knowledge about writing grant proposals appropriate for research, program enhancement, and/or program development.

Prerequisite(s):

Admission into the doctoral program

COUN 736 - Dissertation Seminar

3 Credit(s)

This course focuses on developing the essential components of the student's dissertation. This seminar is designed to assist students in making substantive progress in identifying and developing their dissertation proposal. Students will critically examine the current literature associated with their research interests and examine the current literature associated with their research interests and examine applicable conceptual constructs and methodologies. Students will complete the first drafts of the first three chapters of their dissertation, which will be used for their dissertation proposal. A complete review of the literature and draft of the dissertation proposal will be evaluated for methodological strengths and weaknesses.

Prerequisite(s):

COUN 708 Minimum Grade: B-
AND

COUN 712 Minimum Grade: B-
AND

COUN 722 Minimum Grade: B-
AND

COUN 734 Minimum Grade: B-

COUN 737 - Doctoral Internship I-Supervision

1 Credit(s)

Students are required to complete doctoral-level counseling internships that total a minimum of 600 clock hours. The 600 hours must include supervised experiences in at least three of the five doctoral core areas (counseling, teaching, supervision, research and scholarship, leadership and advocacy). The 600 credit hours may be allocated at the discretion of the doctoral advisor of the doctoral advisor and the student on the basis of experience and training. Internship is designed to provide individual students with a planned program of advanced doctoral level professional experience in a college or community/agency setting. Internship assignments will be controlled and coordinated by a university instructor. An experienced professional at the internship site provides direct supervision. The doctoral-level internship will consist of providing individual and group supervision to master's level students, teaching and/or co-teaching master's level counseling courses, and participating in professional activities related to counselor education. If doctoral students have had limited clinical counseling experiences prior to beginning their doctoral work, they may also be required to complete credit hours in a counseling setting to gain more counseling experience

Prerequisite(s):

COUN 710 Minimum Grade: B-

COUN 738 - Doctoral Internship II Teaching

1 Credit(s)

Students are required to complete doctoral-level counseling internships that total a minimum of 600 clock hours. The 600 hours must include supervised experiences in at least three of the five doctoral core areas (counseling, teaching, supervision, research and scholarship, leadership and advocacy). The 600 credit hours may be allocated at the discretion of the doctoral advisor and the student on the basis of experience and training. Internship is designed to provide individual students with a planned program of advanced doctoral level professional experience in a college or community/agency setting. Internship assignments will be controlled and coordinated by a university instructor. An experienced professional at the internship site provides direct supervision. The doctoral-level internship will consist of student's engaging in teaching activities, which include but are not limited to teaching master's level students on-campus/online. If doctoral students have been limited clinical counseling experiences prior to beginning their doctoral work, they may also be required to complete credit hours in a counseling setting to gain more counseling experience.

Prerequisite(s):

COUN 710 Minimum Grade: B-
AND

COUN 737 Minimum Grade: B-

COUN 739 - Doctoral Internship III Supervision

1 Credit(s)

Students are required to complete doctoral-level counseling internships that total a minimum of 600 clock hours. The 600 hours must include supervised experiences in at least three of the five doctoral core areas (counseling, teaching, supervision, research and scholarship, leadership and advocacy). The 600 credit hours may be allocated at the discretion of the doctoral advisor and the student on the basis of experience and training. Internship is designed to provide individual students with a planned program of advanced doctoral level professional experience in a college or community/agency setting. Internship assignments will be controlled and coordinated by a university instructor. An experienced professional at the internship site provides direct supervision. The doctoral-level internship will consist of providing individual and group supervision to master's level students, teaching and/or co-teaching master's level counseling courses, and participating in professional activities related to counselor education. If doctoral students have

had limited clinical counseling experiences prior to beginning their doctoral work, they may also be required to complete credit hours in a counseling setting to gain more counseling experience.

Prerequisite(s):

COUN 710 Minimum Grade: B-
AND

COUN 737 Minimum Grade: B-

AND

COUN 738 Minimum Grade: B-

COUN 743 - Doctoral Internship IV Core

1 Credit(s)

Students are required to complete doctoral-level counseling internships that total a minimum of 600 clock hours. The 600 hours must include supervised experiences in at least three of the five doctoral core areas (counseling, teaching, supervision, research and scholarships, leadership and advocacy). The 600 credit hours may be allocated at the discretion of the doctoral advisor and the student on the basis of experience and training. Internship is designed to provide individual students with a planned program of advanced doctoral level professional experience in a college or community/agency setting. Internship assignments will be controlled and coordinated by a university instructor. An experienced professional at the internship site provides direct supervision. The doctoral-level internship will consist of student's choosing from one of three doctoral core areas to complete internship hours. These include counseling, research and scholarship, leadership and advocacy. If doctoral students have had limited clinical counseling experiences prior to beginning their doctoral work, they must also be required to complete credit hours in a counseling setting to gain more counseling experience.

Prerequisite(s):

COUN 710 Minimum Grade: B-
AND

COUN 737 Minimum Grade: B-

AND

COUN 738 Minimum Grade: B-

AND

COUN 739 Minimum Grade: B-

COUN 741 - Doctoral Internship V Teaching

1 Credit(s)

Students are required to complete doctoral-level counseling internships that total a minimum of 600 clock hours. The 600 hours must include supervised experience in at least three of the five doctoral core areas (counseling, teaching, supervision, research and scholarship, leadership and advocacy). The 600 credit hours may be allocated at the discretion of the doctoral advisor and the student on the basis of experience and training. Internship is designed program of advanced doctoral level professional experience in a college or community/agency setting. Internship assignments will be controlled and coordinated by a university instructor. An experienced professional at the internship site provides direct supervision. The doctoral-level internship will consist of student's engaging in teaching activities,

which include but are not limited to teaching master's level students on-campus/online. If doctoral students have had limited clinical counseling experiences prior to beginning their doctoral work, they may also be required to complete credit hours in a counseling setting to gain more counseling experience.

Prerequisite(s):

COUN 710 Minimum Grade: B-
AND

COUN 737 Minimum Grade: B-
AND

COUN 738 Minimum Grade: B-
AND

COUN 739 Minimum Grade: B-
AND

COUN 743 Minimum Grade: B-

COUN 742 - Doctoral Internship VI Supervision

1 Credit(s)

Students are required to complete doctoral-level counseling internships that total a minimum of 600 clock hours. The 600 hours must include supervised experience in at least three of the five doctoral core areas (counseling, teaching, supervision, research and scholarship and advocacy). The 600 credit hours may be allocated at the discretion of the doctoral advisor and the student on the basis of experience and training. Internship is designated to provide individual students with a planned program of advanced doctoral level professional experience in a college or community/agency setting. Internship assignments will be controlled and coordinated by a university instructor. An experienced professional at the internship site provides direct supervision. The doctoral-level internship will consist of providing individual and group supervision to master's level students, teaching and/or co-teaching master's level counseling courses, and participating in professional activities related to counselor education. If doctoral students have had limited clinical counseling experiences prior to beginning their doctoral work, they may also be required to complete credit hours in a counseling setting to gain more counseling experience

Prerequisite(s):

COUN 710 Minimum Grade: B-
AND

COUN 737 Minimum Grade: B-
AND

COUN 738 Minimum Grade: B-
AND

COUN 739 Minimum Grade: B-
AND

COUN 743 Minimum Grade: B-

AND

COUN 741 Minimum Grade: B-

COUN 744 - Dissertation I

3 Credit(s)

This course is a Counselor Education & Supervision doctoral degree requirement focused on preparing students to inform professional practice by generating new knowledge for the counseling profession through dissertation research or a comparable research project focusing on areas relevant to counseling practice, counselor education, and/or supervision. Further, the course requires students to work individually with their doctoral committee to determine the specific requirements for completing dissertation research or comparable research project including a dissertation/project proposal and defense. Students may register for this course after successfully completing oral and written comprehensive exams and with the permission of their dissertation committee. The student's doctoral dissertation/project committee chair (or intended doctoral dissertation/project committee chair) will oversee the work of the student.

COUN 746 - Dissertation II

3 Credit(s)

This course is a Counselor Education & Supervision doctoral degree requirement focused on preparing students to inform professional practice by generating new knowledge for the counseling profession through dissertation research or a comparable project focusing on areas relevant to counseling practice, counselor education, and/or supervision. Further, the course requires students to work individually with their doctoral committee to determine the specific requirements for completing dissertation research or comparable research project including a dissertation/project proposal and defense. Students may register for this course after successfully completing oral and written comprehensive exams and with the permission of their dissertation committee. The student's doctoral dissertation/project committee chair (or intended doctoral dissertation/project committee chair) will oversee the work of the student. The student in collaboration with the supervising faculty member will develop a concrete plan of work related to the student's intended dissertation/research project.

Prerequisite(s):

COUN 744 Minimum Grade: B-

COUN 751 - Dissertation III

3 Credit(s)

This course is a Counselor Education & Supervision doctoral degree requirement focused on preparing students to inform professional practice by generating new knowledge for the counseling profession through dissertation research or a comparable research project focusing on areas relevant to counseling practice, counselor education, and/or supervision. Further, the course requires students to work individually with their doctoral committee to determine the specific requirements for completing dissertation research or comparable research project including a dissertation/project proposal and defense. Students may register for this course after successfully completing oral and written comprehensive exams and with the permission of their dissertation committee. The students doctoral dissertation/project committee chair (or intended doctoral dissertation/project committee chair) will oversee the work of the student. The student in collaboration with the supervising faculty member will develop a concrete plan of work related to the students intended dissertation/research project.

Prerequisite(s):

COUN 736 Minimum Grade: B

AND

COUN 744 Minimum Grade: B

AND

COUN 746 Minimum Grade: B

COUN 755 - Dissertation IV

3 Credit(s)

This course is a Counselor Education & Supervision doctoral degree requirement focused on preparing students to inform professional practice by generating new knowledge for the counseling profession through dissertation research or a comparable research project focusing on areas relevant to counseling practice, counselor education, and/or supervision. Further, the course requires students to work individually with their doctoral committee to determine the specific requirements for completing dissertation research or comparable research project including a dissertation/project proposal and defense. Students may register for this course after successfully completing oral and written comprehensive exams and with the permission of their dissertation committee. The student's doctoral dissertation/project committee chair (or intended doctoral dissertation/project committee chair) will oversee the work of the student. The student, in collaboration with the supervising faculty member, will develop a concrete plan of work related to the student's intended dissertation/research project.

Prerequisite(s):

COUN 736 Minimum Grade: B

AND

COUN 744 Minimum Grade: B

AND

COUN 746 Minimum Grade: B

AND

COUN 751 Minimum Grade: B

COUN 756 - Dissertation Continuation

1 Credit(s)

This course is a Counselor Education and Supervision doctoral degree requirement for students who have not successfully defended their dissertation after completing COUN 755 - Dissertation IV. This course allows students to continue and complete dissertations with the assistance of the dissertation committee.

Prerequisite(s):

COUN 736 Minimum Grade: B-

AND

COUN 744 Minimum Grade: B-

AND

COUN 746 Minimum Grade: B-

AND

COUN 751 Minimum Grade: B-

AND

COUN 755 Minimum Grade: B-

Program Total (60 Hours)

Pre-Physical Therapy

Go to: Department of Kinesiology

Requirements

A physical therapy degree is an advanced degree program offered at selected universities. Some programs are at the master's degree level, but many are at the doctorate level. All require a bachelor's degree with a minimum GPA of 3.0 (average acceptance GPA of 3.5) and a GRE score higher than 1,500 (with a minimum of 500 in each section) for admission.

In addition, most require a minimum number of hours working with a physical therapist. The bachelor's degree may be in any major, but a set of core courses in the sciences and other disciplines is required. Often, a list of recommended courses is suggested. Students must check with the schools to which they will apply for specific requirements, preferably early in their undergraduate career, because of the wide diversity of requirements. This will facilitate scheduling of the required courses along with major and Undergraduate General Education Requirements.

Core Science and Math Courses Required for Many Programs Include

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 101L - Introductory Biology Lab

0 Credit(s)

Introductory Biology is a one-semester laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T
OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T
OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

BIOL 205 - Human Anatomy and Physiology I

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The integumentary, skeletal, muscular, and nervous systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Test - Minimum Score: 3 **OR** MATH 97 Minimum Grade: S or S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T and SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18 **OR** ENG 96 Minimum Grade: S or T

BIOL 206 - Human Anatomy and Physiology II

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The digestive, respiratory, circulatory, urinary, endocrine, and reproductive systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL 205 Minimum Grade: C- or T

OR

BIOL 210 Minimum Grade: C- or T

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 226 - College Physics II

5 Credit(s)

The second course of a two-semester lecture-laboratory sequence introducing the fundamental principles of physics. In the second semester, students will be introduced to the areas of electricity, electric circuits, optics, and topics in modern physics. Conceptual understanding as well as problem-solving techniques will be emphasized in the lecture. The laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture.

Prerequisite(s):

PHYS 225 Minimum Grade: C- OR T

Other Courses That May Be Required or Recommended

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

PSYC 204 - Child Development

3 Credit(s)

The goal of this course is to examine the interaction of heredity and environment on human development from conception through pre-adolescence. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Some topics include the birth process, early cognitive and language development, gender socialization, the impact of parenting styles, and moral reasoning.

Prerequisite(s):

PSYC 101 Minimum Grade: C or T

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

PSYC 205 - Adolescent and Adult Development

3 Credit(s)

This course continues the study of life-span development from adolescence through old age and death. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Topics

include identity formation, sexual orientation, marriage, models of aging, changes in cognition, social developments, and coping with old age.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 230 - Psychology of Mental Health

3 Credit(s)

The purpose of this course is to provide students with the historical and social background necessary to understand mental health issues. Students will examine the psychodynamic, behavioral, and cognitive approaches related to the development and treatment of mental disorders and their classifications. Topics will include schizophrenia, depression, bipolar, and personality disorders.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

CHEM 321 - Organic Chemistry

4 Credit(s)

A study of the relationship between structure and reactivity of carbon-containing compounds.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 321L

CHEM 321L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 321. Laboratory time will be divided among techniques, preparation, and mechanistic studies.

Co-requisite(s): CHEM 321

KIN 329 - Exercise Physiology

3 Credit(s)

This course presents an introduction and overview of the physiological bases of physical education, sport, and athletics. The effects of exercise on the various systems will be considered. Practical application of exercise science to physical fitness and athletic performance will be emphasized.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T

OR

BIOL 205 Minimum Grade: C- OR T

Co-requisite(s): KIN-329L

KIN 340 - Kinesiology

3 Credit(s)

This course focuses on the nature of human movement as influenced by those motor factors, anatomical factors, and mechanical principles that apply at rest and in motion.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

AND

KIN 329 Minimum Grade: C- OR T

AND

KIN 329L Minimum Grade: C- OR T

CHEM 401 - Biochemistry

3 Credit(s)

A study of structural biochemistry. Course begins with a review of water, the lipophilic environment, noncovalent bonding, and bioenergetics. Topics include amino acids, peptides, proteins, nucleic acids, carbohydrates, and lipids. Enzymes are discussed with emphasis on mechanism and kinetics.

Prerequisite(s):

CHEM 322 Minimum Grade: C- OR T

Co-requisite(s): CHEM 401L

CHEM 401L - Biochemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-401. Laboratory time will be spent learning protein purification techniques and doing independent project work.

Co-requisite(s): CHEM-401

Note

Most schools require General Chemistry but some will allow CHEM 111 and CHEM 112 - Introductory Chemistry. MATH 106 and MATH 107 are pre- or co-requisites for General Chemistry and College Physics. A sufficiently high

score on the mathematics portion of the ACT or SAT may waive these particular math requirements, but you need to take one math course as part of the Undergraduate General Education Requirements.

Business Administration Certificate

Required Courses

BUS 500 - Leadership Skills for Managers

3 Credit(s)

This course teaches practical skills required for effective management at all levels of an organization, and is designed to increase a learner's understanding of key concepts and procedural guidelines related to organizational management, human resource, and leadership. The purpose is to be equipped to deal effectively with managerial challenges dealing with people.

BUS 505 - Creating Consumer Value

3 Credit(s)

This course presents learners with a comprehensive approach to creating consumer value. This includes marketing and brand management in for-profit firms as well as identifying and meeting consumer needs in non-profit and governmental organizations. Topics include segmentation and targeting of consumers; the positioning levers of product, price, promotion, and distribution; and brand management.

ECON 505 - Managerial Economics

3 Credit(s)

This course demonstrates how economics theory is applied to national and international managerial decision-making. The course covers topics such as demand analysis, production and cost functions, market structure, managerial understanding of public policy, and international trade finance topics. Pre-req.-Undergraduate Economics course with a grade of C or higher.

BUS 520 - Managerial Accounting

3 Credit(s)

This course provides a review of financial reporting standards and statements and analysis of those financial statements. Managerial accounting principles will be explored as well as budgeting, cost allocation, accumulation, cost behavior, and relevant costs; revenues are approached from a managers' perspective. Prerequisite: undergraduate accounting course with a grade of C or higher.

BUS 525 - Financial Analysis

3 Credit(s)

Students will embark on studying basic financial principles and enhance that with understanding various valuation concepts and methods. Emphasis is also placed on capital budgeting and long term financing as well as working capital management. The course will blend time-tested finance principles and the latest advancements with the practical

perspectives of the financial manager. Prerequisite: undergraduate accounting course with a grade of C or higher.

Prerequisite(s):

BUS 520 Minimum Grade: C

BUS 540 - Strategy

3 Credit(s)

In this course, learners examine tools and techniques for competitive analysis, strategic planning, and strategy implementation. Learners gain knowledge of the tools and concepts needed to develop a business strategy including macro environmental scanning, industry and competitive analysis, value chain analysis, SWOT analysis, identification of critical success factors and driving forces, and development of strategic alternatives and recommendations.

Business Leadership Certificate

Go to: Business

Required Courses

BUS 500 - Leadership Skills for Managers

3 Credit(s)

This course teaches practical skills required for effective management at all levels of an organization, and is designed to increase a learner's understanding of key concepts and procedural guidelines related to organizational management, human resource, and leadership. The purpose is to be equipped to deal effectively with managerial challenges dealing with people.

BUS 545 - Leading Entrepreneurial Organizations

3 Credit(s)

Successful organizations emphasize learning to sustain their competitive advantage. This course will study entrepreneurship and intrapreneurship. Areas of emphasis include uncovering the methodologies and characteristics that foster innovations and achieve meaningful change in business that leads to the creation and implementation of profitable business opportunities.

BUS 550 - Technology and Innovation

3 Credit(s)

This course adopts the perspective of a general manager-- an individual charged with diagnosing complex situations and resolving them in ways that enhance organizational performance. The course emphasizes how general management decisions may contribute to the creation and appropriation of economic value through innovation.

BUS 555 - Leading for Results

3 Credit(s)

This course focuses on how leaders mobilize others within their organization to get extraordinary things done. You will analyze what characteristics you need to develop to achieve your own professional goals and reflect on ways you can develop your competencies as a leader.

BUS 560 - Leadership Capstone

3 Credit(s)

This capstone course integrates knowledge gained in the previous graduate business courses. It centers on the theme that organizations achieve sustained success when their managers have astute, timely, strategic game plans, and they implement these plans with proficiency. This class incorporates the "big picture" and cuts across the whole spectrum of business and leadership.

Business Qualitative Skills Certificate

Go to: Business

Required Courses

BUS 500 - Leadership Skills for Managers

3 Credit(s)

This course teaches practical skills required for effective management at all levels of an organization, and is designed to increase a learner's understanding of key concepts and procedural guidelines related to organizational management, human resource, and leadership. The purpose is to be equipped to deal effectively with managerial challenges dealing with people.

BUS 505 - Creating Consumer Value

3 Credit(s)

This course presents learners with a comprehensive approach to creating consumer value. This includes marketing and brand management in for-profit firms as well as identifying and meeting consumer needs in non-profit and governmental organizations. Topics include segmentation and targeting of consumers; the positioning levers of product, price, promotion, and distribution; and brand management.

BUS 540 - Strategy

3 Credit(s)

In this course, learners examine tools and techniques for competitive analysis, strategic planning, and strategy implementation. Learners gain knowledge of the tools and concepts needed to develop a business strategy including macro environmental scanning, industry and competitive analysis, value chain analysis, SWOT analysis, identification of critical success factors and driving forces, and development of strategic alternatives and recommendations.

- Plus 1 500 Level Elective **3 Credit(s)**

Business Quantitative Skills Certificate

Go to: Business

Required Courses

BUS 520 - Managerial Accounting

3 Credit(s)

This course provides a review of financial reporting standards and statements and analysis of those financial statements. Managerial accounting principles will be explored as well as budgeting, cost allocation, accumulation, cost behavior, and relevant costs; revenues are approached from a managers' perspective. Prerequisite: undergraduate accounting course with a grade of C or higher.

BUS 525 - Financial Analysis

3 Credit(s)

Students will embark on studying basic financial principles and enhance that with understanding various valuation concepts and methods. Emphasis is also placed on capital budgeting and long term financing as well as working capital management. The course will blend time-tested finance principles and the latest advancements with the practical perspectives of the financial manager. Prerequisite: undergraduate accounting course with a grade of C or higher.

Prerequisite(s):

BUS 520 Minimum Grade: C

- Plus 1 BUS 500 Level Elective **3 Credit(s)**

ECON 505 - Managerial Economics

3 Credit(s)

This course demonstrates how economics theory is applied to national and international managerial decision-making. The course covers topics such as demand analysis, production and cost functions, market structure, managerial understanding of public policy, and international trade finance topics. Pre-req.-Undergraduate Economics course with a grade of C or higher.

Data Analytics and Decision-Making Certificate (9 credits)

Required Courses

LEAD 560 - Data Analysis in Higher Education

3 Credit(s)

This course introduces the concepts and skills involved in understanding and analyzing research in a variety of areas in higher education. The course provides an overview of basic, general knowledge of various research methodologies. It emphasizes the conceptual underpinnings of statistical analysis of data, including univariate and bivariate descriptive

statistics, sampling distributions, statistical estimation, hypothesis testing and procedures in testing statistical hypothesis for one and two sample designs. This course also enhances students' abilities to locate, read, comprehend, and critically analyze research articles and reports.

LEAD 561 - Institutional Research, Planning, and Assessment

3 Credit(s)

This course provides students with an overview of decision-making strategies and techniques for effective planning, institutional research, and assessment. Particular attention will be given to the diversity of institutional settings and the context within which leaders in higher education practice, including small and large campuses, public and private colleges and universities, system offices, and state and federal level agencies.

LEAD 562 - Strategic Enrollment Management

3 Credit(s)

This course provides students with a study of purposes, organizations, and functions of strategic enrollment management (SEM) including relevant research, case studies of public and private college and university implementation of SEM, its context in higher education, and contemporary practical administrative SEM organizations and functions. Topics will be covered such as admissions, financial aid, student access and success, college completion, marketing and branding, technology, change management, and state and federal policies.

Educational Policy in LEAD Certificate (12 credits)

Go to: Educational Leadership

Go to: Master of Arts in Leadership Education Administration and Development (LEAD) with Emphasis in Higher Education Administration and Leadership (HEAL)

Required Courses

LEAD 530 - Budgeting and Finance in Higher Education

3 Credit(s)

This course provides students with an overview of finance and budgeting issues in higher education. It describes the financial resource management in institutions as well as the budgeting process.

LEAD 531 - Politics and Policy in Higher Education

3 Credit(s)

This course examines state and federal government policies that influence institutions of higher education (IHEs) generally and Hispanic Serving Institutions (HSIs) specifically. The intersection between policies and institutional actions creates a dynamic that influences administrative leadership and student access and success. Effective leaders must account for the context in which they operate, and state and federal policies contribute to that context and, as such, merit special consideration and study.

LEAD 532 - Legal Issues in Higher Education

3 Credit(s)

This course is designed to review the impact of the judiciary on higher education. The legal standing of institutions of higher education on issues of staff rights, student rights, and tort liability will be addressed. In addition, the impact of local ordinances, state and federal laws and regulations will be examined.

LEAD 533 - Historical/Contemporary Issues

3 Credit(s)

This course provides students with an overview of the evolution of American higher education as we know it today. The first half of the course is an examination of the history of American higher education, beginning with colonial times and tracing its development to the present. The second half of the course examines current topics in higher education, focusing on perennial issues and why they continue to perplex higher education officials.

Finance Certificate

Go to: Business

Required Courses

BUS 525 - Financial Analysis

3 Credit(s)

Students will embark on studying basic financial principles and enhance that with understanding various valuation concepts and methods. Emphasis is also placed on capital budgeting and long term financing as well as working capital management. The course will blend time-tested finance principles and the latest advancements with the practical perspectives of the financial manager. Prerequisite: undergraduate accounting course with a grade of C or higher.

Prerequisite(s):

BUS 520 Minimum Grade: C

BUS 531 - Multinational Financial Management

3 Credit(s)

Multinational Financial Management course has two emphases: one on the basics and the other on a managerial perspective. As international capital markets of the world become more integrated, an understanding of international financial management has become important for U.S. corporate decision making. This course provides students with groundwork for analysis that will serve them well in their future careers. The decision-making process in this course will teach students how to make knowledgeable managerial decisions in an ever changing global financial setting.

Prerequisite(s):

BUS 525 Minimum Grade: B-

BUS 532 - Portfolio Management and Investment Analysis

3 Credit(s)

The unifying theme of this course is that security markets are almost efficient, meaning that most securities are priced appropriately given their risk and return attributes. The course is a blend of practical and theoretical coverage combined with a complete digital solution to focus on making investment decisions from the perspective of the portfolio manager. This course also covers the Series 7 License and is designed to prepare the student for taking the National Association of Securities Dealers General Securities Representative Exam.

Prerequisite(s):

BUS 525 Minimum Grade: B-

BUS 533 - Financial Markets and Institutions

3 Credit(s)

This course is a great reflection of the latest developments from the field of financial markets. It helps students understand why financial markets exist, how financial institutions serve these markets, and what services those institutions offer. The course also focuses on the management, performance, and regulatory aspects of financial institutions and explores the functions of the Federal Reserve System, as well as the major debt and equity security markets, and derivative security market.

Prerequisite(s):

BUS 525 Minimum Grade: B-

BUS 534 - Finance Capstone

3 Credit(s)

This course uses a case study approach to solve complicated corporate problems and links managerial decisions to capital markets and the expectations of investors. Students will gain a deeper understanding of financial issues that they encounter in their professional career. At the core of the cases is a valuation task that requires students to look to financial markets for guidance in resolving the case problem. The focus on value helps the students understand the impact of the firm on the world around it.

Prerequisite(s):

BUS 525 Minimum Grade: B-
AND

BUS 531 Minimum Grade: B-

AND

BUS 532 Minimum Grade: B-

AND

BUS 533 Minimum Grade: B-

Graduate Certificate in Diversity, Equity, and Inclusion in Sport

Go to: Kinesiology

This certificate, offered through the Kinesiology Department, is a 15-credit hour certification that will aid students in being able to better incorporate DEI measures into their respective professions.

Required Courses

KIN 502 - Women, Sport, and Society

3 Credit(s)

This course will explore how women have been involved in sports and athletics, how they have fought to claim recognition and legitimacy among historically male dominated settings, and how they continue to shape sports and the role of women in society. We will explore a wide variety of topics in society related to women in sports including historical influences, equitable access, characteristics of female sport participation, sport opportunities, and sport leadership. Topics will include Title IX, female bodies and physiology, sport diversity, gender identity, women's sport and aging, disabilities, sport and sexual violence, media and women's portrayal in sports, competitive sports in high school, college, and professional leagues, and marketing women's sports.

KIN 515 - Administration of Sport

3 Credit(s)

This course is designed to teach students the important principles, concepts, research, and theories of managing a sport organization. Students will develop the ability to apply the management principles to interscholastic, intercollegiate and professional and Olympic sports. Students will learn the fundamental principles such as: organizational development, marketing, human resources, strategic planning, sport culture, media relations, fundraising, event management, and leadership as it relates to sport.

Prerequisite(s):

BUS 500

KIN 538 - Diversity and Equity in Sport

3 Credit(s)

This course explores aspects of diversity and equity in sport. This course has a two-fold purpose: first, it is designed to provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask questions and think critically about diversity, equity, and inclusion in sport and interaction with society. This course will explore issues around diversity, equity, and inclusion in sport and society.

KIN 556 - Strategic Management / Leadership

3 Credit(s)

This course will provide a detailed overview of strategic management and leadership with an emphasis on the management of sport organizations in the commercial, public and not for profit sectors. This course will enable learners to evaluate the relevance of distinctive strategic management tools and consider how these can be applied to support the development of effective sport and sport-related organizations. Students also will examine the principles of effective leadership and reflect on their personal leadership style, the skills and competencies that support the style as well as examining plans for personal and professional development.

Prerequisite(s):

BUS 500 Minimum Grade: C

KIN 587 - Diversity, Equity, and Inclusion in Sport Capstone**3 Credit(s)**

The capstone is designed to provide a cumulative experience for students who are completing the Diversity, Equity, & Inclusion (DEI) in Sport certification through the School of Kinesiology & Health Sciences. The capstone provides graduate students an opportunity to integrate the content they've learned in the DEI-related Kinesiology (KIN) prerequisite classes into their anticipated professions post-graduation. More specifically, students will further learn from minorities' lived experiences while being challenged to consider how such lived experiences should influence how the student manages themselves in professional and personal matters with the intent to be more equitable and inclusive of all bodies in their professional and personal lives.

Health Administration Certificate (Graduate)

Go to: Business

Required Courses

- Any 4 HCA 500 level courses

Leadership Certificate (12 credits)**Required Courses****LEAD 500 - Leadership Theory****3 Credit(s)**

This course provides a study/review of leadership theories and leadership development concepts. Students will gain an understanding of leadership, leadership theories, and leadership development.

LEAD 501 - Cultural Competency and Equity in Higher Ed**3 Credit(s)**

This course focuses on issues of equity, cultural competency, diversity and allyship to provide students with the tools needed to create more inclusive and socially just environments in higher education.

LEAD 520 - Leadership in MSIs**3 Credit(s)**

This course examines the various leadership theories that inform the practice of administration in colleges and

universities and the higher education industry in general. Through assignments, special attention will be geared toward applying these theories to leadership within the context of Hispanic Serving Institutions (HSIs).

LEAD 521 - Administrative and Academic Collaboration

3 Credit(s)

This course provides students with an overview of staffing practices in higher education and the opportunities and challenges for collaboration between faculty, staff, and administration, with a special emphasis on acquiring a better understanding of who faculty are, what faculty do, and what faculty think. Particular attention will be given to how organizational culture drives collaborative efforts in minority serving institutions.

Public Administration Certificate

Go to: Business

Required Courses

- Any 4 MPA 500 level courses

Public Sector Leadership Certificate

Go to: Business

The certificate will provide an opportunity for graduate study in Public Administration without committing to earning a full master's degree. This should be especially appealing to current public managers who already have a graduate degree in another field.

Completion of the graduate certificate will also allow potential students to test out graduate study without entering a full degree program.

Required Courses

MPA 500 - Introduction to Public Administration

3 Credit(s)

An introductory survey to the field of public administration, especially historical, political, and organizational approaches to ethical and reflective professional practice.

MPA 550 - Public Administration Capstone

3 Credit(s)

The Capstone Course offers each student the opportunity to demonstrate mastery of the theory and practice of public administration by applying the knowledge and skills gained in the MPA and MBA-PA programs. This involves completing a portfolio project reflecting the cumulative knowledge gained from these experiences.

Prerequisite(s):

Admission to MPA or MBA program

Plus 6 credits of elective coursework from MPA offerings

School Counseling Certificate

The School Counseling Certificate will provide individuals who hold a Master's degree in Counseling from a CACREP-accredited institution a pathway to become a licensed school counselor in the state of Colorado. These certificate students will complete four classes (12 credits) in our existing school counseling degree plan. They will also be required to complete two semesters of School Counseling Internship (6 credits) in elementary, middle, and high school for a total of 600 hours. This certificate program will be run in a cohort model, and it will take students three semesters to complete the coursework and requirements.

Required Courses

COUN 534 - Counseling Modalities in a School Setting

3 Credit(s)

This course focuses on applying the skills interventions and modalities learned in the counseling courses to the school setting. Emphasis will be on learning to use evidence-based practices to help K-12 students function more effectively in the academic, personal/social, and career domains.

COUN 540 - Foundations of School Counseling

3 Credit(s)

This course provides an introduction to professional school counseling, including historical perspectives, theory, practice, employment settings, credentialing, legislation, research, and ethical considerations.

COUN 541 - Comprehensive School Counseling

3 Credit(s)

This course offers an in-depth exploration of current professional school counseling. Students will understand the skills needed in counseling, consulting, advocacy, and collaboration to promote academic success for all students. The course offers a comprehensive approach to a school counseling program. Students will learn the mechanism with which school counselors and school counseling teams design, coordinate, implement, manage and evaluate their programs for student success.

Prerequisite(s):

COUN 540 Minimum Grade: C

COUN 551 - Professional School Counseling Issues

3 Credit(s)

This course will focus on the day-to-day life of the school counselor and current trends in school counseling. Specifically, students will gain an understanding of the counselor as educational leader, working with parents and the community, diversity in schools, serving specific populations, crises/threat assessment, technology, career advisement, and ethical and legal issues.

COUN 586 - Internship I School Counseling

3 Credit(s)

Students will utilize knowledge and skills gained in coursework and the practicum experience in a supervised counseling setting. Students will receive supervision, increase knowledge of the profession, increase skill base, and continue the process of self-exploration and self-awareness.

Prerequisite(s):

COUN 537 Minimum Grade: B-

COUN 596 - Internship II- School Counseling

3 Credit(s)

A continuation of Internship I, students will complete their supervised on-site experience, expand their acquired skills, and receive further supervision.

Superintendent Licensure Certificate (9 credits)

Required Courses

LEAD 510 - The Superintendency

3 Credit(s)

This course provides a survey of the Superintendency as an executive position responsible for the organizational leadership and management of school districts in the United States. Emphasis will be placed on unpacking professional standards from the American Association of School Administrators (AASA) as well as Colorado-based standards for licensure as a school administrator/superintendent.

Candidates will be expected to critically examine each of Standards in terms of how they are implemented through policies and practices within their own districts while making recommendations for improving such policies based on current research and best practice

LEAD 511 - Superintendents as Transformational Leaders

3 Credit(s)

This course supports aspiring superintendents in developing the knowledge and skills necessary to be responsive, transformational leaders in diverse school contexts. Throughout the course, candidates will engage in case-study analysis and critical discussion to work through potential dilemmas and challenges while applying research and best practice in leadership to sustain a clear focus on student learning through well-managed systems. The content of this course aligns to Colorado Department of Education and AASA standards.

LEAD 512 - Superintendent Practicum

3 Credit(s)

During this 300-hour practicum, candidates will apply knowledge and skills gained throughout the program to demonstrate competency in each of the required licensure standards for Administrator/Superintendent in Colorado.

Candidates will document progress on each standard by logging their experiences and writing monthly reflection papers in which they explicitly address how they are progressing on demonstrating licensure standards. This course also includes the final/capstone project- a candidate driven project developed in coordination with the candidate's mentor and host site to address a local need.

Teaching of History at the College Level Certificate

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

This certificate will appeal to high school educators seeking 18 credit hours to teach college-level credit bearing courses at the secondary level.

Core Courses (6 credits)

HIST 500 - Historiography and Historical Methods

3 Credit(s)

A historiographical seminar in which students learn and demonstrate a mastery of a variety of methods historians use to understand the past.

HIST 510 - Teaching History

3 Credit(s)

This course explores best practices and trends in the teaching of history at the secondary and collegiate levels.

Choose 12 Elective Credits

HIST 501 - State History

3 Credit(s)

A graduate-level survey of the history of a particular state, with emphasis on how meta and national phenomenon impacted a given state, as well as events and phenomena unique to the state.

HIST 505 - American West

3 Credit(s)

This course is a survey of the American West with an emphasis on interpretation by historians. Admission to the Master of Arts program is required.

HIST 507 - Latino History

3 Credit(s)

This course will give special attention to the loss of land in the late nineteenth century, community formation during the early twentieth century, and the Chicano Movement of the late 1960's and early 1970's. At a deeper level, this course explores both the strengths and weaknesses in the relevant historiography and fundamental questions about the practice of history and the forces that form and serve as custodians of memory.

HIST 520 - Topics in World History

3 Credit(s)

This course will involve intensive reading, analysis, and discussion of selected topics/controversies in world history.

HIST 521 - Women in US History

3 Credit(s)

This course examines the role of women in American history with special emphasis on how the story of women is told by historians over time. It examines not only the lives of many famous white women, but also the experiences of women from various ethnicities and economic backgrounds. In addressing how Americans construct their understanding of women's lives in the U.S., this course will also reassess how focusing on women's lives might alter one's understanding of the broader patterns and interpretations of American history.

HIST 522 - Gilded Age and Progressive Era

3 Credit(s)

This course examines the United States from the end of Reconstruction through World War I. The Gilded Age covers the period of intense economic expansion after the Civil War, and examines the expansion of big business, the growth of the labor movement, and the crisis of the 1890's. The second half of the course studies the period of intense reform known as the Progressive Era, and concludes with U.S. participation in the First World War. Topics will include American overseas expansion, immigration, the suffrage movement, and the rise of governmental economic regulation.

HIST 526 - U.S. in the Era of World Wars

3 Credit(s)

A study of the United States History during World War I and World War II, or focused on either War, with special attention devoted to diplomatic, social, and political developments of the specific period under study with emphasis on the impact of immigration, urbanization, technology, and America's increasing involvement in world affairs.

HIST 527 - The Sixties Era

3 Credit(s)

The events of the 1960's continue to polarize the country today. This course is an in-depth examination of the transformation of the United States between World War II and the 1980's with a focus on the years 1964-1973, during which most of the events of what people understand as The Sixties took place. The major theme will be the transformation of the American political system, the social upheavals and cultural rebellion of the U.S. in the 1960's, the Vietnam War, and the Reagan Era. Of particular concern is how the era and events have been interpreted by scholars over time. This course is part of the core for the M. A. degree program in United States History. This course is designed for delivery through Blackboard and Blackboard Collaborate. It can also be adapted for a hybrid format, or a correspondence format.

HIST 540 - U.S. Presidency

3 Credit(s)

A study of the United States Presidency from 1789 to the present., with special attention devoted to the changing scope and function of the office in the changing context of broader American History. Other topics of particular interest are the key figures who have altered the institution and the role of crises in changing the scope and functioning of the office. The course with separate subtitles can be repeated no more than 3 times.

HIST 546 - Borderlands

3 Credit(s)

This course explores borderlands as a site of historical scholarship with special emphasis on the southwestern United States and the United States-Mexico border.

HIST 550 - US Sports History

3 Credit(s)

A study of the history of sports and leisure in the United States Presidency from colonial times to the present, with special attention devoted to the changing social context in which sporting activities have taken place. Other topics of particular interest are the roles of race and gender in shaping the world of sport, and the roles of marketing, professional organizations, and media such as television in examining how sport has become part of the fabric of American life. This course views sport both as reflective of broader trends in American society but also as a catalyst of change.

HIST 551 - Atlantic History

3 Credit(s)

This course explores the Atlantic world as a field of historical scholarship with a special focus on European colonization of the Americas, African slavery, and the Age of Revolutions.

HIST 563 - Civil War and Reconstruction

3 Credit(s)

A graduate-level study of the antebellum South, sectional discord, armed conflict, and reconstruction of the Union.

HIST 568 - U.S.-Latin American Relations

3 Credit(s)

This course will examine U.S. - Latin Relations from the Monroe doctrine to the present with a more intensive and analytical focus on cold-war relations and the shift to post-cold-war dynamics.

HIST 579 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

HIST 590 - History Practicum

3 Credit(s)

A graduate-level practicum in the development and of United States History curriculum (education and public history).

HIST 592 - Workshop

0.5 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

HIST 599 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Head.

General Business Certificate

Go to: Business

Courses (16 credit hours)

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 179 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

Health Administration Certificate (Undergraduate)

Go to: Business

Courses (16 credits total)

HCA 303 - Trends and Issues in Health Care

3 Credit(s)

This course is an introductory Health Care Administration course and will expose the student to the industry and its significant elements and trends of the current health care environment.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

HCA 311 - Health Care Law and Ethics

3 Credit(s)

This course presents an overview of the legal and ethical issues faced by health care consumers, practitioners, and administrators. The course will introduce students to the legal aspects of health care at the federal, state, and local levels. Topics covered will include criminal and civil claims against health care providers, corporate and individual liability, and legal and ethical decision-making, individual liability, and legal and ethical decision-making. HCA 361 Health Care Administration. Instructor permission.

Prerequisite(s):

BUS 211 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

HCA 325 - Health Care Informatics

3 Credit(s)

This course is a study of record keeping practices in the hospital and physician's office. Emphasis is placed in hospital and medical staff organization, patient record content, procedures in filing, numbering and retention of patient records, quantitative analysis, release of patient information, forms control and design, indexes and registers, reimbursement, regulatory and accrediting agencies, and alternate health care delivery systems. Instructor permission required.

Prerequisite(s):

BUS 120 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

HCA 363 - Health Care Finance

3 Credit(s)

This course is devoted to the practical aspects of finance in health care, an examination of current practices in financial management of health care organizations, and managerial applications to specific problems facing health care managers. The first part of the course will focus on an overview of health care finance, managerial accounting, and financial analysis. The second part will continue with managerial accounting and financial analysis and will concentrate on the various tools used in financial management. Emphasis is placed on unique issues and concerns that result from the regulatory framework of health care organizations. At the conclusion of this course, the student should be able to discuss the financial structure, market forces, controls and techniques used in the health care management field, be able to read and analyze financial statements and budgets and have the skill to interpret financial and operating performance.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 402 - Public and Population Health

3 Credit(s)

This course consists of an examination of epidemiological concepts and methods of studying the distribution and determinants of morbidity and mortality in human population. The knowledge and skills acquired should enable one to understand and critically review scientific literature dealing with epidemiology concepts and measures. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

BUS 179 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

Pre-Nursing Certificate

The Certificate of Completion of Pre-Nursing Prerequisites will allow students to demonstrate that they have successfully completed 51 pre-nursing credit hours successfully with a C or better. Successfully completing prerequisites allows students to be candidates for nursing school selection.

Complete the following Supporting/General Education Courses for Nursing with a Minimum Grade of C

Complete a First-Year Seminar Course

FYS 101 - First Year Seminar

1 to 3 Credit(s)

First-year students launch into the Adams Experience through a First-Year Seminar (FYS) course. FYS will engage students by creating habits for success, learning to navigate college life, and build skills for success. Each FYS will focus on a unique topic that will be the theme of course discussions, experiences, and assignments. FYS will develop academic and social capital and support a successful transition into higher education, instill lifelong learning, and reinforce student persistence.

Complete all Courses

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 205 - Human Anatomy and Physiology I

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The integumentary, skeletal, muscular, and nervous systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Test - Minimum Score: 3 **OR** MATH 97 Minimum Grade: S or S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T and SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18 **OR** ENG 96 Minimum Grade: S or T

BIOL 206 - Human Anatomy and Physiology II

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological

changes in disease. The digestive, respiratory, circulatory, urinary, endocrine, and reproductive systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL 205 Minimum Grade: C- or T

OR

BIOL 210 Minimum Grade: C- or T

BIOL 215 - Microbiology for Health Sciences

4 Credit(s)

A lecture/laboratory course designed to fulfill requirements for pre-nursing and pre-pharmacy students as a practical introduction to microorganisms, especially bacteria and viruses, and their contribution to human health and disease. Laboratory exercises are designed to provide experience in handling microorganisms, bacterial identification, and other basic principles of microbiology. This course will not fulfill requirements for any of the biology degree tracks. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL-205 Minimum Grade: C- OR T

AND

CHEM-105 Minimum Grade: C- OR T

AND

CHEM-105L Minimum Grade: C- OR T

OR

CHEM-111 Minimum Grade: T OR C-

AND

CHEM-111L Minimum Grade: T OR C-

OR

BIOL-209 Minimum Grade: C- OR T

AND

BIOL-210 Minimum Grade: C- OR T

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce

effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T

OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

PSYC 233 - Lifespan Dev for Nurses

3 Credit(s)

This is a foundational course for nursing students in human growth and development. The goal of this course is to examine the interaction of heredity and environment on biological, cognitive, and social development from conception to death.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

Complete 1 of the Following Statistics Courses

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T

OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

PSYC 211 - Introduction to Statistics Lecture/Lab

4 Credit(s)

In this course, students will develop a working appreciation of statistical concepts and applications as employed in the behavioral sciences. The course presents descriptive and inferential statistics and their applications. The laboratory component of this course gives students an opportunity to develop skills in using statistical software.

Prerequisite(s):

PSYC 101 Minimum Grade: C- or T

AND

MATH 97 Minimum Grade: S-A or S-B or S-C or T

OR

MATH 99 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 121 Minimum Grade: C- or T

OR

MATH 140 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Complete 1 of the following Arts and Humanities Courses (GT-AH1, GT-AH2, or GT-AH3)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the

present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Complete 1 of the following History Courses (GT-HI1)

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an

understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Complete 1 of the following Mathematics Courses (GT-MA1)

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T
OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

Minor in Accounting

Go to: Business

A minor in accounting requires 18 hours in business and/or economics, of which a minimum of 15 hours must be in accounting. All 18 hours may be in accounting.

Minimum of 15 Hours from the Following

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 305 - Intermediate Accounting I

4 Credit(s)

The first of a two-course sequence of Intermediate Accounting designed to develop a framework for the role financial accounting plays in the world of business. A study of the conceptual basis of accounting will be conducted, creating a more in-depth understanding of the preparation and interpretation of financial statements and related information. This course will focus on the study of modern-day accounting theory and application of generally accepted accounting

principles to various topics and financial statement elements. Students will be introduced to the U.S. Accounting Standards Codification and basic research tools.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 306 - Intermediate Accounting II

4 Credit(s)

The second of a two-course sequence of Intermediate Accounting designed to develop a framework for the role financial accounting plays in the world of business. A study of the conceptual basis of accounting will be conducted, creating a more in-depth understanding of the preparation and interpretation of financial statements and related information. This course will focus on the study of modern-day accounting theory and application of generally accepted accounting principles to various topics and financial statement elements. Students will continue their use of the U.S. Accounting Standards Codification as a research tools.

Prerequisite(s):

BUS 305 Minimum Grade: C- OR T

BUS 307 - Managerial Cost Accounting I

3 Credit(s)

Principles and methods of recording and interpreting cost data. Major emphasis on developing accounting information for planning, control, and decision making.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 308 - Managerial Cost Accounting II

3 Credit(s)

Principles and methods of recording and interpreting cost data. Major emphasis on developing accounting information for planning, control, and decision making.

Prerequisite(s):

BUS 307 Minimum Grade: C- OR T

BUS 355 - Individual Income Taxation

4 Credit(s)

This course involves the study of federal income tax on individual and property transactions. Objectives of taxation are given major emphasis. The Internal Revenue Code is discussed in addition to textbook material in order to acquaint the student with the ultimate source of tax law. Income tax return problems and tax cases may be assigned to provide practical application of the tax law.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 358 - Accounting Ethics

3 Credit(s)

Ethics as it applies to the accounting and auditing professions and will be the focus of this course. Emphasis will be on the concept of independence, along with integrity, objectivity, ethical reasoning, and other core values necessary for a high level of professional ethics in the accounting profession.

Prerequisite(s):

BUS 306 Minimum Grade: C- OR T

BUS 360 - Government and Institution Accounting

3 Credit(s)

Study of accounting procedures related to governmental units and nonprofit institutions.

Prerequisite(s):

BUS 305 Minimum Grade: C- OR T

BUS 371 - Payroll Accounting and Taxation

3 Credit(s)

This course is devoted to the principles of payroll computations and administration including creation and maintenance of payroll records as well as proper payroll tax depositing and reporting.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 377 - Agricultural Taxation

3 Credit(s)

This course is devoted to specific income tax laws associated with agricultural business to include farmers and ranchers both as individuals and as part of taxable entities.

Prerequisite(s):

BUS 355 Minimum Grade: C- OR T

BUS 405 - Advanced Accounting

4 Credit(s)

BUS-405 involves preparation and study of the need for consolidated financial statements. Additionally, it examines accounting problems associated with partnerships and foreign currency transactions.

Prerequisite(s):

BUS 306 Minimum Grade: C- OR T

BUS 407 - Auditing I

3 Credit(s)

Study of ethical standards, auditing standards, audit procedures, and evolution of internal control to learn how financial statements are examined and audit reports prepared in accordance with Generally Accepted Auditing Standards.

Prerequisite(s):

BUS 305 Minimum Grade: C- OR T
AND

BUS 306 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 409 - Fraud Examination

3 Credit(s)

This class will explain how occupational fraud is committed, how fraudulent conduct can be deterred and how allegations of fraud should be investigated and resolved.

Prerequisite(s):

BUS 305 Minimum Grade: C- OR T

BUS 455 - Entity Taxation

4 Credit(s)

Business 455 concentrates on the federal income tax consequences of the formation, normal operation, and the dissolution of corporations, partnerships, and fiduciaries. Other taxation problems of special interest may be covered.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 465 - Estate, Gift, and Fiduciary Tax Law

3 Credit(s)

This course will address the fundamentals of Estate, Gift, and Fiduciary tax law. Topics will include Federal Gift Tax, death transfer tax laws, and fundamentals and reporting returns for estates.

Prerequisite(s):

BUS 455 Minimum Grade: C- OR T

Plus 3 Credits of business or economics courses

Minor in Agribusiness

Go to: Business

A minor in Agribusiness requires 18 hours of agribusiness and/or business, of which 15 hours must be in agribusiness.

Minimum of 15 Hours from the Following

BUS 105 - Introduction to Agribusiness

3 Credit(s)

An introductory course designed to provide students with a basic background in agribusiness issues and practices to give them the foundation to be successful in upper level agribusiness courses and meet expectations for basic knowledge in agribusiness relationships.

BUS 364 - Agribusiness Management

3 Credit(s)

Management issues of agricultural businesses such as the forms of ownership, financial statements, analysis, and planning, investment analysis, strategic marketing, management of organizations, and human resources management.

Prerequisite(s):

BUS 105 Minimum Grade: C- OR T
AND

BUS 207 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

BUS 378 - Commodities/Risk Management

3 Credit(s)

The goal of this course is to provide students with knowledge of risk management for agricultural endeavors as well as practical knowledge of how the futures and options markets work, how to manage risk involved in agriculture production or operation, and various tools available to manage specific situations. BUS 103 Introduction to Business or instructor consent. BUS 105 Introduction to Agribusiness or instructor consent. BUS 318 Principles of Management or instructor consent.

Prerequisite(s):

BUS 103 Minimum Grade: D OR T
AND

BUS 105 Minimum Grade: D OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 384 - Natural Resources/Water Law

3 Credit(s)

The goal of this course is to provide students with knowledge of the regulatory responsibilities related to agriculture production and operations with respect to natural resources and water. The course will cover federal, state, and local requirements as well as application to agribusiness endeavors.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 211 Minimum Grade: C- OR T

BUS 398 - Farm and Ranch Management

3 Credit(s)

The application of economic and business principles to the management and operation of farms and ranches for decision making purposes.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 207 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

BUS 478 - Agricultural Marketing

3 Credit(s)

An overview of current marketing methods used for agricultural products and services, including value added marketing.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 488 - Agricultural Policy and Farm Bill

3 Credit(s)

Development and implementation of public policy in agriculture, implications of international competition and trade, and development and interpretation of argument in policy development.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

BUS 498 - World Food Distribution/Agricultural Economics

3 Credit(s)

Knowledge and application of economic concepts to the sectors of agriculture including microeconomic and macroeconomic relationships, world markets, and trade.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Plus 3 Hours of a 300- or 400-level Business Elective

Minor in Anthropology

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

Degree Requirements

There are two possible tracks for the completion of the anthropology minor:

Required Courses

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ANTH 205 - Physical Anthropology

3 Credit(s)

The course will examine physical anthropology as a sub discipline of anthropology. The goal is to understand how the physical realities of being human affects the nature of culture. The central theme will be the evolution of humans from the earliest hominid forms to modern Homo sapiens. The course will focus on the mechanisms of evolution, an understanding of primate behavior in general, and the fossil evidence for hominid development.

ANTH 300 - Archaeology

3 Credit(s)

This course will provide an overview of archaeological method and theory with a particular emphasis on American archeology, and provide a general survey of prehistory with an emphasis on the western United States.

ANTH 310 - Anthropological Linguistics

3 Credit(s)

After a general introduction to the nature of language (descriptive linguistics) this course will focus on human communication and the uses of language (psycholinguistics and sociolinguistics) and on the language cognition relationship (cognitive anthropology and symbolic anthropology).

Plus, Select 2 Courses from the Following Electives

ANTH 330 - Humans and Water

3 Credit(s)

This class will explore the relationship between humans and water through space and time, focusing on the American West. We will look at how different cultural groups interact with and manipulate water, as well as how they view the natural resource. In addition, we will analyze how changes in water resources influenced human cultures.

ANTH 339 - Field School in Archaeology

6 Credit(s)

The purpose of this course is to provide students with the basic skills, and the theories from which they are derived, necessary to do archaeological fieldwork. The student will learn basic techniques of site identification and recording, excavation, and artifact processing and analysis. In addition, they will learn instrument surveying and introductory applications of geographic information systems. The skills taught will be appropriate for either prehistoric or historic sites.

ANTH 360 - Forensic Anthropology

3 Credit(s)

This class examines the science and methods of physical anthropology as it relates to the medico-legal work done to identify unknown human remains in atypical circumstances. This introductory course will introduce students to human osteology and dentition in relation to identifying age, sex, stature, and ancestry, as well as bone pathologies and techniques for estimating time of death and post-mortem changes. As part of the course, some visual materials will depict trauma and decomposition of human remains.

ANTH 349 - Anthropology Internship

3 to 6 Credit(s)

This course provides the student with meaningful hands on experience in the field of Anthropology. Students will engage with internship work at a research library, museum, community organization, government agency, or other applicable institution to enhance their knowledge of sources, research methods, institutional cultures, and potential work environments.

ANTH 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

ANTH 450 - Southwest Archaeology

3 Credit(s)

This course explores the greater Southwest from the earliest human inhabitants to Spanish colonization. We will discuss significant changes and trends in subsistence, technology, social systems, and political organization over roughly 15,000 years; from hunter-gatherers following mammoths on the landscape to the Pueblo Revolt of 1680. The course will give students an appreciation of the adaptations of people in the Southwest to an often harsh environment, while also introducing them to the methods and theories archaeologists use to understand the past.

ANTH 460 - Medical Anthropology

3 Credit(s)

This course will explore the cross-cultural significance of health and wellness from an anthropological perspective. We will delve into the complex interplay of biological, psychological, social, environmental, and political-economic processes on the concepts of illness, suffering, and healing. Particular emphasis will be placed on the ethnographic approach to the lived context in which wellness and suffering are experienced, narrated, and addressed.

Minor in Art

Go to: Art

The art minor consists of 18 credit hours (6 courses) that can be taken alongside your major requirements during any semester at Adams. You can choose to take courses in any art discipline or you can take several courses within one studio areas. If you are interested in adding an Art minor to your degree you will need an art faculty advisor. Contact the Department Chair for more information.

Degree Requirements

Required Core

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

Plus One or More of the Following

AR 105 - Introduction to Art Criticism

3 Credit(s)

This course introduces students to art criticism and critical thinking in the field of visual art. Exercises in reading about art, observing art, and talking and writing about art, will develop the student's ability to discuss their own work and a wide variety of artworks by others. Students will be introduced to and practice techniques for reading, thinking, writing, and speaking critically as applied to art.

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

AR 252 - Beginning 3D - Form and Extended Media

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to fabrication and subtractive processes and materials. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in introductory metal fabrication, CAD/CAM technology, metal casting, and wood or stone carving. This course has a course specific fee to cover the costs of some materials.

AR 3XX: 3D Form & Media Rotator (3 Hours)

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing

3 Credit(s)

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking**3 Credit(s)**

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

Minor in Biology

Go to: Biology

Degree Requirements

Completion of at least 18 credits selected in consultation with the department chair or completion of the following required courses:

BIOL 209 - General Biology I GT-SC1**5 Credit(s)**

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1**5 Credit(s)**

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General

Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- OR BIOL-209 Minimum Grade: T OR BIOL-209 Minimum Grade: C- AND (CHEM-131 Minimum Grade: C- OR CHEM-131 Minimum Grade: T) OR (CHEM-111 Minimum Grade: C- OR CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

BIOL 321 - Genetics

3 Credit(s)

A study of Mendelian and molecular genetics of eukaryotes and prokaryotes. Discussions include basic Mendelian principles, meiosis/mitosis, linkage, gene expression, and molecular techniques. Course includes 3 hours of lecture and 1 hour of peer learning activities per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

OR

CHEM-132 Minimum Grade: C- OR T

AND

CHEM-132L Minimum Grade: C- OR T

BIOL 323 - Cellular Biology

3 Credit(s)

The study of higher plant and animal cells and tissues at the biochemical level including: organelle structure, function, and metabolic role; cell growth, differentiation and specialization; and a survey of instrumentation and methodologies for investigating life processes at the biochemical level. Course includes three hours of lecture per week. Concurrent registration in BIOL 321 and BIOL 325 is recommended.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

BIOL 325 - Cellular Biology/Genetics Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with BIOL 321 and BIOL 323. Laboratory exercises in this course are designed to demonstrate, complement, and extend concepts considered in BIOL 321 and BIOL 323. Students will engage in exercises involving a variety of techniques in which data pertinent to both disciplines will be gathered and analyzed. Course includes 3 hours of laboratory per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

AND

CHEM 111L Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 131L Minimum Grade: C- OR T

Co-requisite(s): BIOL 321 BIOL 323

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

BIOL 332 - Evolution

3 Credit(s)

A study of the history and development of evolutionary theory. Consideration is given to evidence for and mechanisms of evolution from anatomical, developmental, geological, mathematical, and molecular perspectives. Credit or

concurrent registration in BIOL 330 is recommended. This course includes 3 hours of lecture per week.

Prerequisite(s):

BIOL 209 Minimum Grade: C- OR T
AND

BIOL 210 Minimum Grade: C- OR T

Minor in Business Administration

Go to: Business

Note: A minor in Business Administration is not allowed if a student also has a major in business.

Degree Requirements

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

Plus 6 Hours

from the following (may, but need not, come from the same subgroup):

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND/OR

BUS 307 - Managerial Cost Accounting I

3 Credit(s)

Principles and methods of recording and interpreting cost data. Major emphasis on developing accounting information for planning, control, and decision making.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

AND/OR

BUS 355 - Individual Income Taxation

4 Credit(s)

This course involves the study of federal income tax on individual and property transactions. Objectives of taxation are given major emphasis. The Internal Revenue Code is discussed in addition to textbook material in order to acquaint the student with the ultimate source of tax law. Income tax return problems and tax cases may be assigned to provide practical application of the tax law.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

AND/OR

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

AND/OR

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 320 - Bus Computer Applications II

3 Credit(s)

The focus of this course is to explore application software on a comprehensive level to gain expertise to support decision-making and manage information. Study includes intermediate Word and Excel applications; intermediate to advanced PowerPoint; intermediate Access, integration of Office applications, and an introduction to HTML and building web pages.

Prerequisite(s):

BUS 120 Minimum Grade: C- OR T

BUS 362 - Human Resource Management

3 Credit(s)

Analysis of techniques used to organize, motivate, and manage personnel in public or private organizations. Includes case studies and examines current literature and the current legal environment..

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

AND

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256
AND

BUS 373 - Investment Analysis

3 Credit(s)

BUS 318 recommended. The course is a study of personal investment planning, traditional and alternative investment vehicles, investment media, investment strategy, and portfolio analysis. The student will become familiar with both money market and capital investment markets as well as strategies for assessing returns and risks of various security instruments.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T
AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

AND

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

Minor in Chemistry

Go to: Chemistry

Completion of at least 18 semester hours, including CHEM 131 and CHEM 132 and a one-year sequence of upper-division chemistry. The minor must be approved by the coordinator of the chemistry program.

Minor in Coaching

Go to: Department of Kinesiology

The coaching minor in Kinesiology is designed for those who are not majoring in Kinesiology but would like to coach at the amateur level, including elementary, junior high, secondary, or post-secondary levels.

Degree Requirements

A minor in coaching consists of the following (Total 18 hours):

KIN 302 - Sport Psychology

3 Credit(s)

Sport psychology is primarily concerned with the interaction between psychological variables and participation in sport and exercise. This course will review this interaction by addressing variables that affect the individual athlete, influence sport and exercise environments, shape group processes, enhance health and wellbeing, improve performance, and facilitate psychological growth and development in sport participants from diverse populations.

KIN 309 - Care / Prevention of Athletic Injuries

3 Credit(s)

The course will focus on the care and prevention of athletic injuries, including the evaluation, nature, types, and functions of various rehabilitation programs.

KIN 350 - Methods of Coaching

3 Credit(s)

This course is intended to provide the foundations of coaching for a person who wants to coach at the youth, elementary, high school or college level. Through a series of discussions, readings, and other projects, the potential coach will gain the knowledge and skills required to be an effective coach. This course will address the many roles and duties a coach must accept to provide positive experiences for athletes in sport.

KIN 380 - Diversity, Equity Sport, and Society

3 Credit(s)

This course has a two-fold purpose: first, it is designed to provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask questions and think critically about sport as a part of society. This course will explore issues around diversity, equity and inclusion in sport and society.

KIN 391 - Sport Ethics and Leadership

3 Credit(s)

This course explores the myriad of moral and ethical issues pertaining to athletes, sports, and sport organizations and how these apply to professionals in the field of sport management. The course will also explore leadership theories and philosophies. Current examples of ethical dilemmas in sport and sport management will be presented, and students will explore their personal ethics in relation to these issues.

KIN 480 - Coaching Practicum

3 Credit(s)

In this course, students will gain actual field-based experience in coaching. This course will give the student an opportunity to gain documented experience as a coaching intern, apply the skills developed during his/her undergraduate program, and reflect on his/her experiences.

Prerequisite(s):

KIN 350 Minimum Grade: C- OR T

Note

A coaching practicum is required for the minor. The practicum may be accomplished, with the approval of the department chair, by assisting with an elementary, junior or senior high school program, or with college sports program.

Completion of the practicum will qualify the individual for the Adams State University Coaching Certification. A prerequisite to the practicum is KIN 350 AND at least 10 hours in the coaching minor core.

Minor in Computer Science

Go to: Engineering and Computer Science

Degree Requirements

CSCI 205 - Computer Science I

4 Credit(s)

This course is the second course in the introductory programming sequence for computer science majors. Through the study of object design this course introduces the basics of graphical user interfaces, data types, control structures, methods, arrays, strings, files, simple graphics and fundamental algorithms. Students will also be introduced to object oriented design, polymorphism, interfaces, the concept of object abstraction, and simple design patterns.

Prerequisite(s):

CSCI 104 Minimum Grade: C- OR T
OR

CSCI 202 Minimum Grade: C- OR T

CSCI 206 - Computer Science II

4 Credit(s)

This course is the third course in the introductory programming sequence for computer science. The course continues object oriented programming and first concepts in object oriented software design. The course also covers classic data structures and algorithms. Concepts covered include streams, graphs, trees, recursion, complexity classes, sorting and searching routines, basic algorithm design and analysis, threading, and generic programming.

Prerequisite(s):

CSCI 205 Minimum Grade: C- OR T

A Minimum 12 Credits from the Following

CSCI 224 - Discrete Concepts

4 Credit(s)

A course on the fundamentals of discrete (as opposed to continuous) processes. The course is a foundational course for students pursuing the B.S. Mathematical Sciences Computer Science degree. The course covers a variety of discrete mathematical topics required for a solid background in computer science, including mathematical logic, set theory, induction, algorithmic complexity, combinatorics, discrete probability, basic graph theory, relations, Boolean algebra, finite state automata, and basic theory of computation.

Prerequisite(s):

Math Placement Test - Minimum Score: 5

OR

MATH 106 Minimum Grade: C- OR T

AND

CSCI 205 Minimum Grade: C- OR T

CSCI 307 - Programming Languages & Platforms

3 Credit(s)

This course will examine several of the most used programmable platforms/contexts, the programming languages that are used for each, and why each is the way it is. Specific cases and examples that will be considered are cloud computing, mobile platforms, multiprocessors, service oriented architectures, virtual machines, functional programming, logic programming, web services, security, scripting, and even a little low level programming. Students will learn about the various types of programming languages and their appropriate use as well as the use of scripting languages, architectures, application programming interfaces, and programming practices to facilitate the management, integration and security of the systems that support an organization.

Prerequisite(s):

CSCI 205 Minimum Grade: C- OR T

CSCI 316 - Computer Architecture

3 Credit(s)

This class will introduce concepts of computer architecture and organization, including assembly level machine organization, data representation, memory systems, bus principles, digital logic, micro programs, functional machine architecture, RISC, CISC, parallel architectures and other advanced architectures. It will expose students to assembly-level programming and will make them implement assembly programs.

Prerequisite(s):

CSCI 206 Minimum Grade: C- OR T

CSCI 318 - Multiprocessor Computing

3 Credit(s)

Introduction to multiprocessor programming and application development covers the principles and practice of distributed system architectures and models, interprocess communication, distributed algorithms, concurrency, security, application programming interfaces, system performance, and programming paradigms appropriate for programming of multiprocessor systems.

Prerequisite(s):

CSCI 325 Minimum Grade: C- or T

CSCI 335 - Foundations of Networks

4 Credit(s)

This course introduces students to computer networks. Focus is on the concepts of networking like the OSI layered network architectures, network protocols and protocol design. Topics include the fundamentals of networking and communications, network management and wireless computing. Lab sessions feature computer networking hands-on exercises. The course also exposes students to network programming through the use of sockets

Prerequisite(s):

CSCI 205 Minimum Grade: C- OR T

CSCI 325 - Algorithm Design and Analysis

3 Credit(s)

Introduces formal techniques to support the design and analysis of algorithms, focusing on both the underlying mathematical theory and practical considerations of efficiency. Topics include asymptotic complexity bounds, techniques of analysis, algorithmic strategies, and an introduction to automata theory and its application to language translation.

Prerequisite(s):

CSCI 205 Minimum Grade: C- or T
AND

CSCI 206 Minimum Grade: C- or T

AND

MATH 250 Minimum Grade: C- or T

CSCI 417 - Computer Systems and Architecture

4 Credit(s)

This class will familiarize students with the basics of the inner workings and design of Computer Systems. The course will examine how operating systems, computer hardware and other system software/hardware combine to produce a usable, efficient and secure system. Topics will include basic machine architecture, memory management (primary and secondary), bus principles, I/O devices, data representation, file systems, process/thread management, scheduling, simple digital logic, virtualization, real time systems concepts, and embedded systems. This course will also examine alternative system designs including basic distributed systems.

Prerequisite(s):

CSCI 206 Minimum Grade: C- OR T

CSCI 428 - Artificial Intelligence

3 Credit(s)

Provides both a brief overview of the basics of artificial intelligence and machine learning, and an in-depth investigation of selected hot topics in the field. The course will examine basic and advanced search techniques, knowledge representation, machine learning and data mining, natural language processing, and historical and philosophical issues regarding artificial intelligence. The course is a project-based course that will involve implementing and experimenting with open-source machine-learning software.

Prerequisite(s):

CSCI 206 Minimum Grade: C- or T

AND

CSCI 224 Minimum Grade: C- or T

Minor in Creative Writing

Go to: Languages, Literature, and Media Communication

Degree Requirements

All students are required to take:

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

ENG 227 - Introduction to Creative Writing

3 Credit(s)

Students write and read poetry, fiction, creative nonfiction, and drama, develop aesthetic standards, and evaluate their writing and that of their classmates. Course emphasizes the writing process, including strategies for invention and revision, and presents ideas for teaching creative writing.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

In Addition, Three Courses from the Following Must Be Selected

ENG 326 - Creative Writing Poetry Workshop I

3 Credit(s)

This course will teach students to develop their craft and creativity in the genre of poetry. Students submit original poems weekly, read selected works of contemporary, published poetry, and critique their own work and that of their classmates. Students practice revision and submit revised work in a final portfolio of at least 10 pages.

Prerequisite(s):

ENG 227 Minimum Grade: C- OR T

AND

ENG 210 Minimum Grade: C- OR T

OR

ENG 203 Minimum Grade: C- OR T

ENG 327 - Fiction Workshop I

3 Credit(s)

This course will teach students to develop creativity in the genre of prose fiction (short story). Students will submit their original writing, read works of published fiction, and critique their own work and the work of their classmates.

Prerequisite(s):

ENG 227 Minimum Grade: C- OR T

ENG 328 - Creative Nonfiction I

3 Credit(s)

This course covers techniques in nonfiction writing encompassing a variety of styles, forms, and topics, encouraging exploration of the genre's innumerable possibilities while developing the student's personal and critical theories of writing.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

AND

ENG 227 Minimum Grade: C- OR T

ENG 426 - Poetry Workshop II

3 Credit(s)

This course will teach students to further develop their craft and creativity in the genre of poetry. Students will submit original poems weekly, read selected works of contemporary published poetry, and critique their own work and the work of their classmates. They will practice revision and submit revised work in a portfolio of at least 15 pages.

Prerequisite(s):

ENG 326 Minimum Grade: C- OR T

ENG 427 - Fiction Workshop II

3 Credit(s)

This course will teach students to further develop their craft and creativity in the genre of prose fiction (short story). Students will submit their original writing, read works of published fiction, and critique their own work and the work of their classmates.

Prerequisite(s):

ENG 327 Minimum Grade: C- or T

ENG 428 - Creative Nonfiction II

3 Credit(s)

This course covers advanced techniques in nonfiction writing begun in ENG 328 as the student assembles a portfolio of work suitable for application to graduate programs.

Prerequisite(s):

ENG 328 Minimum Grade: C- OR T

ENG 497 - Capstone Writing Workshop

3 Credit(s)

This course is designed as a capstone for all Creative Writing majors. The content of the course will focus on organization, editing, and honing of a final writing project.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

AND

ENG 214 Minimum Grade: C- OR T

OR

THTR 213 Minimum Grade: C- OR T

AND

ENG 227 Minimum Grade: C- OR T

AND

ENG 326 Minimum Grade: C- OR T

AND

ENG 327 Minimum Grade: C- OR T

AND

ENG 328 Minimum Grade: C- OR T

In Addition, One Course from the Following Must Be Selected

ENG 458 - Reading Poetry

3 Credit(s)

A study of poetry from ancient to contemporary with an emphasis on form and technique.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

ENG 460 - Reading Short Prose

3 Credit(s)

A study of fiction and nonfiction short prose forms with an emphasis on authors writing in the English and American traditions, but including works in translation, and with special attention to form and technique.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

Minor in Economics

Go to: Business

Degree Requirements

A minimum 18 credits from the following:

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 307 - Managerial Cost Accounting I

3 Credit(s)

Principles and methods of recording and interpreting cost data. Major emphasis on developing accounting information for planning, control, and decision making.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 320 - Bus Computer Applications II

3 Credit(s)

The focus of this course is to explore application software on a comprehensive level to gain expertise to support decision-making and manage information. Study includes intermediate Word and Excel applications; intermediate to advanced PowerPoint; intermediate Access, integration of Office applications, and an introduction to HTML and building web pages.

Prerequisite(s):

BUS 120 Minimum Grade: C- OR T

BUS 355 - Individual Income Taxation

4 Credit(s)

This course involves the study of federal income tax on individual and property transactions. Objectives of taxation are given major emphasis. The Internal Revenue Code is discussed in addition to textbook material in order to acquaint the student with the ultimate source of tax law. Income tax return problems and tax cases may be assigned to provide

practical application of the tax law.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 373 - Investment Analysis

3 Credit(s)

BUS 318 recommended. The course is a study of personal investment planning, traditional and alternative investment vehicles, investment media, investment strategy, and portfolio analysis. The student will become familiar with both money market and capital investment markets as well as strategies for assessing returns and risks of various security instruments.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T
AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

BUS 378 - Commodities/Risk Management

3 Credit(s)

The goal of this course is to provide students with knowledge of risk management for agricultural endeavors as well as practical knowledge of how the futures and options markets work, how to manage risk involved in agriculture production or operation, and various tools available to manage specific situations. BUS 103 Introduction to Business or instructor consent. BUS 105 Introduction to Agribusiness or instructor consent. BUS 318 Principles of Management or instructor consent.

Prerequisite(s):

BUS 103 Minimum Grade: D OR T
AND

BUS 105 Minimum Grade: D OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 383 - International Financial Management

3 Credit(s)

A comprehensive study of international financial markets that covers currency exchange mechanisms in theory and practice. In line with the rapid globalization of the economy, the goal of this course is to analyze the international financial environment and how managers function in this increasingly uncertain global environment. The course will focus on three main areas of international finance: international financial environment, exchange rate behavior, and exchange risk management.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 414 - Commercial Banking

3 Credit(s)

Bank Management is an in-depth study of banking institutions, with special emphasis on commercial banks and their connection to the Federal Reserve System and other financial institutions. A risk management perspective is adopted, and the fast changing global regulatory and financial environments are discussed. A Uniform Bank Performance Report will be analyzed.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 416 - Business Financial Problems

3 Credit(s)

Emphasis on financial decision-making within the firm using case studies as the primary activity. Topics include financial goals and strategy, financial analysis and forecasting, capital budgeting, capital structure decisions, dividend policy, and firm valuation.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

ECON 425 - Economic Policy

3 Credit(s)

Study of the structure and functions of the U.S. economic system and the use of monetary, fiscal, and other policies to stabilize the economy. Emphasis on historical roots and the evolution into new behavioral economic ideas as well as the complex interplay of policy and economic forces.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

ECON 433 - Managerial Economics

3 Credit(s)

Application and integration of microeconomic theory and the tools of decision science to managerial decision-making. Particular emphasis placed on the economic differences caused by monopolies, cartels, and multi-national organizations and their domination of many industries. Understanding of game theory and new economic analysis tools.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

HCA 455 - Health Care Economics

3 Credit(s)

This course will examine health care decision-making and the functioning of health care markets in the U.S. The course is not designed as a pure economics theory course but instead emphasizes how you can frame and analyze various health issues using the principles of economics. By doing so, you will gain a powerful new perspective that will help you understand the decisions made by individuals and organizations in the face of scarce resources. Instructor permission.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

BUS 466 - Business Ethics Decision Making

3 Credit(s)

This course explores various ethical issues facing business leaders in modern society. Students will utilize current issues to analyze ethical dilemmas and decision-making processes common to modern organizations. Emphasizes critical thinking, critical reading, and the importance of professional ethics.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 498 - World Food Distribution/Agricultural Economics

3 Credit(s)

Knowledge and application of economic concepts to the sectors of agriculture including microeconomic and macroeconomic relationships, world markets, and trade.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Plus 3 Hours of a 300- or 400-level Business Elective

Minor in English

Go to: Languages, Literature, and Media Communication

Degree Requirements

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

Completion of 18 total credits in English

Note:

Nine of the 18 hours must be 300 or 400-level. These nine upper-division courses must be taken at Adams State

Minor in English/Communication

Go to: Languages, Literature, and Media Communication

Degree Requirements

Completion of the core requirement (3 hours)

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

Completion of 4 Elective Courses

COMM 165 - Digital Filmmaking

3 Credit(s)

Course covers the aesthetics and practice of narrative, documentary, and experimental media production at an introductory level using a variety of digital filmmaking tools including digital photography, digital video, audio recorders, and editing software. Students will complete video products they can post to YouTube and similar sites.

OR

COMM 365 - Digital Filmmaking

3 Credit(s)

This course covers the aesthetics and practice of narrative, documentary, and experimental media production using a variety of digital filmmaking tools including digital photography, digital video, audio recorders, and editing software. Students will complete video products they can post to YouTube and similar sites.

Prerequisite(s):

COMM 230 Minimum Grade: C- OR T

COMM 190 - Radio Practicum

1 to 3 Credit(s)

Students earn one credit hour for every three hours of work weekly on KASF-FM or its web site. See station manager for details.

COMM 195 - Video Practicum

1 to 3 Credit(s)

Students earn one credit per three videos (or equivalent work) that they produce for the student-run Grizzly Video Productions (YouTube channel and Campus Cable Channel 5). Please see the Grizzly Video Productions faculty adviser or the student GVP General Manager for further details.

COMM 197 - Newspaper Practicum

1 to 3 Credit(s)

Students earn one credit per five stories (of 500 words apiece, or pre-approved substitutions) that they write for the Paw Print. Students should write on a variety of topics. Also required is the attendance of three newspaper staff meetings per credit registered. Please see the newspaper faculty advisor or the student editor for further details.

COMM 275 - News Writing and Criticism

3 Credit(s)

Inverted pyramid print writing and basic broadcast writing are covered in this course. Additionally, students critique, discuss, and analyze current print and broadcasting media conventions, ethics, and procedures.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

COMM 285 - Digital Media Production

3 Credit(s)

Teaches skills needed to produce effective digital media in print, audio, and video formats. Students are encouraged to take this course concurrently with newspaper, radio, and/or video practicum.

COMM 327 - Social Media

3 Credit(s)

Surveys the history of the early Internet and the transition to Web 2.0. Students will apply this knowledge by designing, creating, and developing social media presence for non-profits, local municipalities, etc., and training the recipients on how to maintain their social media presence

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

COMM 340 - Citizen Journalism and Freelance Writing

3 Credit(s)

This course focuses on the writing skills and theory behind being a freelance or citizen journalist, including feature writing and literary journalism, blogging, and video.

Prerequisite(s):

COMM 293 Minimum Grade: C- OR T

COMM 350 - Media Theory and Criticism

3 Credit(s)

Students will explore various theories that explain the nature of mass communication, the impact that media have on

society, and the trends in media consumption. Particular emphasis will be placed on propaganda, violence in media, information processing, media monopolies, and critical media consumption. Students will be expected to track current media and debate contemporary media controversies in class.

Prerequisite(s):

COMM 255 Minimum Grade: C- OR T

COMM 360 - Media Management

3 Credit(s)

Students learn how various media organizations are managed and operated, with a specific focus on radio and television. Various management structures are also explored.

Prerequisite(s):

COMM 293 Minimum Grade: C- OR T

COMM 367 - Short Film/Movie Trailer Production

3 Credit(s)

This course is an intensive production workshop on the sort film and the structure of the commercial movie trailer. Students work in small groups to create an original narrative short film and work individually to create a movie trailer from existing material. Students will share their works in progress with the class and screen their final work through ASU media outlets such as the Grizzly Video YouTube and GRZ-TV campus cable channel 5.

Prerequisite(s):

COMM 165 Minimum Grade: C- OR T
AND

COMM 285 Minimum Grade: C- OR T

COMM 368 - Documentary Film Production

3 Credit(s)

Production course introduces students to the documentary, a form of non-fiction filmmaking. Students will create short documentaries in visual media, utilizing narration, video, still photos, and other elements to tell a story for general audiences.

Prerequisite(s):

COMM 165 Minimum Grade: C- OR T
AND

COMM 285 Minimum Grade: C- OR T

COMM 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student interests in the field.

COMM 420 - Rhetoric of Popular Culture

3 Credit(s)

This course takes seriously the idea human discourse is inherently persuasive. Further, it takes seriously the idea that popular culture is still human culture, and therefore worthy of analysis to understand how it influences human relationships and political struggle. Students will examine the messages and persuasive discourse found in everyday "texts" in film, television, the Internet, music, technology, celebrity, fashion, and other modes of cultural consumption.

COMM 430 - Diversity in Media

3 Credit(s)

Students will analyze how US media represents traditionally marginalized people in the United States. The course will be primarily discussion based, with students and instructor working together to generate ideas and critique dominant ideologies.

Prerequisite(s):

COMM 350 Minimum Grade: C- OR T

COMM 457 - First Amendment and Copyright

3 Credit(s)

This course explores the First Amendment of the U.S. Constitution and current U.S. copyright laws, and how they apply to and affect both media practitioners and U.S. citizens.

Prerequisite(s):

COMM 255 Minimum Grade: C- OR T
AND

COMM 275 Minimum Grade: C- OR T

COMM 496 - Communication Internship

1 to 3 Credit(s)

Advanced communication students will work in a pre-employment capacity in the field of communications/journalism (broadcasting, video, print, satellite, or computing), applying learned skills in a working environment.

THTR 242 - Voice for Performance

3 Credit(s)

Study of the physical nature of voice production and the sound and mechanisms of speech, including articulation, register, and range. Individual analysis and performance.

THTR 250 - Cinema

3 Credit(s)

An introduction to American cinema. This course will cover such topics as the history of cinema, film analysis, cinematography, editing techniques, film genres, screen writing, and the motion picture industry's responses to cultural issues.

Minor in Environmental Science

Go to: Geosciences

Degree Requirements

Completion of at least 18 credit hours selected in consultation with the department chair or completion of the following.

Completion of Required Courses

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Completion of at Least 4 Credits from the Following

CHEM 334 - Environmental Chemistry

3 Credit(s)

This course is designed to introduce the student to a series of topics including stratospheric chemistry, air pollution, global warming, climate change, renewable energy, pesticides, water pollution, and heavy metal pollution.

Prerequisite(s):

CHEM 331 Minimum Grade: C- OR T

Co-requisite(s): CHEM 334L

CHEM 334L - Environmental Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 334.

Co-requisite(s): CHEM 334

GSCI 212 - Natural Resource Management on Public Lands

3 Credit(s)

This course will examine public lands management from both a theoretical and descriptive perspective. The major political forces affecting public lands, and the specific details of energy policy, forests, rangelands, national parks, and wildlife on public lands are discussed.

Prerequisite(s):

GSCI 109 Minimum Grade: C-
OR

BIOL 330 Minimum Grade: C-

GSCI 311 - Climatology

4 Credit(s)

This course examines the global patterns of climate and the processes that shape them. Particular attention is given to climate change mechanisms (past & present), human-induced changes to the climate system, and likely future climates.

Field- and computer-based methodology relevant to the field of climatology is also emphasized.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 321 - Geomorphology with Environmental Applications

4 Credit(s)

This course is a study of the processes that control the development of the materials and landforms found on the earth's surface. An emphasis is placed upon the hydrologic and variables in generating landforms and human interactions with these formative processes. Field trips, topographic map, and aerial photo exercises are required. Offered spring semester of even-numbered years.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 433 - Environmental Geochem Model

3 Credit(s)

This lecture and computer modeling course examines the interaction of geological materials with the surface environment. Processes of transport and fate of contaminants and pollutants from natural and man made sources will be addressed, as well as the geology of some natural resources that contribute pollutants.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

AND

CHEM 131 Minimum Grade: C- OR T

OR

CHEM 132 Minimum Grade: C- OR T

Minor in Finance

Go to: Business

Degree Requirements

A minor in finance requires 18 hours in business and/or economics, of which a minimum of 15 must be in finance.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 367 - Financial Analysis

3 Credit(s)

Examination of techniques for analyzing, understanding, and applying financial information in decision situations. Topics start with financial statement analysis, development of financial models, financial forecasting, cost of capital estimation, and ends with company valuation. In addition, there will be a "hands on" project to provide students with experience in analyzing and understanding a corporate annual report using EXCEL spread sheet analysis.

Prerequisite(s):

BUS 320 Minimum Grade: C- OR T
AND

BUS 363 Minimum Grade: C- OR T

BUS 368 - Financial Institutions

3 Credit(s)

The course focuses on managing return and risk in modern financial institutions. It examines the financial services industry risk of financial intermediation, measurement of interest rate risk, credit and market risk, individual loan and liquidity risks, as well as off-balance sheet and sovereign risks. The course covers management of assets and liabilities, capital adequacy and depository insurance. Futures, forwards, options, caps, floors, collars, swaps and securitization will be also covered.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 373 - Investment Analysis

3 Credit(s)

BUS 318 recommended. The course is a study of personal investment planning, traditional and alternative investment vehicles, investment media, investment strategy, and portfolio analysis. The student will become familiar with both money market and capital investment markets as well as strategies for assessing returns and risks of various security instruments.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T
AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

BUS 383 - International Financial Management

3 Credit(s)

A comprehensive study of international financial markets that covers currency exchange mechanisms in theory and practice. In line with the rapid globalization of the economy, the goal of this course is to analyze the international financial environment and how managers function in this increasingly uncertain global environment. The course will focus on three main areas of international finance: international financial environment, exchange rate behavior, and exchange risk management.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 414 - Commercial Banking

3 Credit(s)

Bank Management is an in-depth study of banking institutions, with special emphasis on commercial banks and their connection to the Federal Reserve System and other financial institutions. A risk management perspective is adopted, and the fast changing global regulatory and financial environments are discussed. A Uniform Bank Performance Report will be analyzed.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 416 - Business Financial Problems

3 Credit(s)

Emphasis on financial decision-making within the firm using case studies as the primary activity. Topics include financial goals and strategy, financial analysis and forecasting, capital budgeting, capital structure decisions, dividend policy, and firm valuation.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 426 - Money and Capital Markets

3 Credit(s)

Discussion of how financial markets are organized, their role in the allocation of funds to various market segments, and the interaction between financial markets. Topics include aggregate flow of funds analysis, an overview of financial markets, securities markets (money, bond, mortgage, stock, foreign exchange, derivative securities), as well as commercial banks, insurance and securities companies, mutual and pension funds markets. This course also covers financial markets risks and regulations.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 431 - Tech Analysis of Stock Trends

3 Credit(s)

Advanced studies in technical market analysis and trading, money management, investor psychology and analysis

elements are considered. The Focus will be on the study of price action in trading markets, patterns and trends, price behavior of financial securities, trading tactics, and construction of a trading or investment model. The course will help students prepare for the Chartered Market Technician (CMT) designation.

Prerequisite(s):

BUS 373 Minimum Grade: C- OR T

BUS 432 - Series 7 General Securities Exam Review

3 Credit(s)

The Series 7 License Exam Review course is designed to prepare the student to take the National Association of Securities Dealers General Securities Representative Exam. After passing the Series 7 License exam the candidate can be licensed to sell various types of securities.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T
AND

BUS 373 Minimum Grade: C- OR T

- BUS/ECON 300/400 Elective **3 Credit(s)**

Minor in Fitness Management

Go to: Department of Kinesiology

Degree Requirements

Required Core:

KIN 205 - Sports and Recreation Management

3 Credit(s)

The Sport and Recreation Management course is designed for students preparing for positions with sport and club teams, community recreation, intercollegiate and high school athletics programs, international sport organizations, national and international amateur sport organizations, or firms specializing in sport. The course is designed to emphasize fundamental knowledge in sport and recreation and will prepare students for various roles in the industry. Through lectures, readings, video, and classroom assignments students will gain an understanding of the sport and recreation industry and how to successfully manage and lead an organization.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

KIN 210 - Sport Communication and Techniques

3 Credit(s)

This course introduces students to the main skills required for sports journalism and public relations, with particular

emphasis on writing and public speaking. Students will learn about the historical development and cultural significance of sport and how those have shaped the business of sport. Students will also be introduced to technologies that impact on their abilities to write and disseminate stories and on how those technologies affect the character of messaging.

KIN 305 - Sport Facility Management

3 Credit(s)

This course introduces students to the discipline of facility management as they relate to the sport, recreation, and leisure industries. Key topics will include planning, designing, managing, scheduling, leading, and supervising sport facilities.

Prerequisite(s):

KIN 100 Minimum Grade: C- OR T
AND

BUS 103 Minimum Grade: C- OR T

KIN 390 - Risk Management

3 Credit(s)

This course explores the structure of the legal system, aspects of product liability, negligence, safety, and liability in the sport industry. Students will learn how to develop contracts designed to alleviate responsibility from a practitioner and/or organization from liability due to ordinary negligence. This course also includes discussions and practical applications for establishing a risk management system for facilities and sports programs.

Prerequisite(s):

KIN 120 Minimum Grade: C- OR T
AND

BUS 103 Minimum Grade: C- OR T

KIN 391 - Sport Ethics and Leadership

3 Credit(s)

This course explores the myriad of moral and ethical issues pertaining to athletes, sports, and sport organizations and how these apply to professionals in the field of sport management. The course will also explore leadership theories and philosophies. Current examples of ethical dilemmas in sport and sport management will be presented, and students will explore their personal ethics in relation to these issues.

KIN 425 - Sport Law

3 Credit(s)

This course explores the structure of the legal system, aspects of constitutional law, labor and anti-trust law, tort law, product liability, contract law, administrative law, and statutory law applicable to the sport industry.

Prerequisite(s):

KIN 390 Minimum Grade: C- OR T

Total Credits: 18

Minor in Food Studies

Go to: Food Studies Department

Required Courses (12 credit hours)

FOOD 100 - Perspectives on Food

3 Credit(s)

This course is an exploration of the multitude of roles that food plays in the world. Each class will consist of a discussion of food through a different lens, such as culture, history, economy, nutrition, power, medicine, and ecology. The course will be highly discussion based and students will be challenged to explore their own personal relationship with food. Grades will be determined based on class participation, weekly reading reflections, a blog-post, and a food sharing presentation in which you will explore the history, culture and personal meaning of a specific dish.

FOOD 200 - U.S. Food Systems

3 Credit(s)

This course will provide an overview of the U.S. Food System, including the policy, agricultural, and cultural history that has led us to the food system that we have today. The course will include the following topics: the role of policy in shaping the food system; the history and current state of federal governmental food and agricultural programs; food as an industry (production, processing, distribution, sales, advertising, and consumer behavior). We will explore the implication of our current system for health, communities, and the environment.

FOOD 250 - Community Food Systems

3 Credit(s)

In this course, students will study local food systems, using the San Luis Valley as a case study for a broader understanding of the role of local food systems in community vitality and health. We will explore: the pathways of food from the farm, to the distributor, to consumer, and finally as waste; inequalities in food access within communities; strategies for creating a resilient and sustainable local food system; and the major players in the local food system. Students will be provided with many examples of organizations using creative solutions to food system problems.

Prerequisite(s):

FOOD 100 Minimum Grade: C-
AND

FOOD 200 Minimum Grade: C-

FOOD 300 - Food Lab I

4 Credit(s)

This course prepares students for careers in which they will be working with food and covers basic knowledge and skills related to food safety, growing and harvesting food, procuring food, preparing food, and planning menus and

educational content. We will spend time working in the Farm Park, helping with tasks and harvesting. In the classroom and kitchen, we will learn basic food preparation, seasonal and local foods, nutritional evaluation of foods, procurement, menu planning, and nutrition education.

Electives (choose 2 of the following)

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T
OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

BUS 105 - Introduction to Agribusiness

3 Credit(s)

An introductory course designed to provide students with a basic background in agribusiness issues and practices to give them the foundation to be successful in upper level agribusiness courses and meet expectations for basic knowledge in agribusiness relationships.

KIN 120 - Concepts in Wellness

3 Credit(s)

In this course, students will learn about the various dimensions of wellness, assess their own health status, and design interventions to improve personal health through lecture, video, laboratory experiences, and physical activities. This course will also provide students with the information necessary to make evidence-based decisions regarding personal wellness and to understand health disparities among diverse populations. There is a physical activity component to this course.

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

SOC 305 - Rural Sociology

3 Credit(s)

The purpose of this course is to introduce some of the social, political, environmental, and economic problems and

prospects associated with rural America. Special attention will also be given rural community services and social institutions, with some focus on the San Luis Valley and other parts of rural Colorado.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

KIN 301 - Sport and Fitness Nutrition

3 Credit(s)

This course will present a review of basic nutrition. The course will also explore the areas of sport, exercise and fitness nutrition, supplementation, sport drug use and abuse, weight loss diets, eating disorders, weight gain nutrition, body composition, and the metabolic nutritional requirements of various sports and fitness activities.

Prerequisite(s):

KIN-329 Minimum Grade: C- OR T
AND

BIOL-112 Minimum Grade: C- OR T

OR

BIOL-205 Minimum Grade: C- OR T

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T
AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

FOOD 350 - Food Lab II

4 Credit(s)

Food lab is a hands-on upper level course for Food Studies majors to learn about food from Farm to Table. Food Lab I

& II should be taken in consecutive Spring and Fall semesters, as the Food Lab I students will ideally plant a garden to be harvested by the students in Food Lab II, the following fall. Even if not possible the courses will still be building upon each other. In Food Lab II, students in the class will work together to take care of the garden and harvest crops using sustainable practices. If this is not possible, students will still learn various skills for preparing the land for the harvesting season, taking care of plants, and learning various gardening skills through experiences working at other farms. Grades will be determined by attendance and participation, as well as a midterm reflection and a final project, paper, or exam. Students will also begin learning cooking techniques and styles, getting to practice and try food and skills from different parts of the world.

Prerequisite(s):

FOOD 300 Minimum Grade: C-

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

FOOD 400 - Food Studies Internship I

3 Credit(s)

This is the first internship for the Food Studies interdisciplinary degree. This course does not include regular classroom instruction, but is an internship in a food-related organization. The purpose of this internship is for the student to learn how the organization functions, its mission and principles, and to provide assistance to the organization.

Prerequisite(s):

FOOD 250 Minimum Grade: C-

SOC 470 - Social and Public Programs

3 Credit(s)

This course analyzes the historical development, current content, and adequacy of social welfare policies in the United States. Specific policy areas to be discussed include income maintenance (including social insurance and public assistance), mental health, health care, and aging.

Prerequisite(s):

SOC 352 Minimum Grade: C- OR T

BUS 488 - Agricultural Policy and Farm Bill

3 Credit(s)

Development and implementation of public policy in agriculture, implications of international competition and trade, and development and interpretation of argument in policy development.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

BUS 498 - World Food Distribution/Agricultural Economics

3 Credit(s)

Knowledge and application of economic concepts to the sectors of agriculture including microeconomic and macroeconomic relationships, world markets, and trade.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Minor in Geography

Go to: Geosciences

Degree Requirements

Required Courses (10 Credit Hours)

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between

humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

GSCI 201 - Introduction to Cartography and GIS

3 Credit(s)

This course will introduce students to the core concepts of Geographic Information Systems (GIS) and the importance and relevance of GIS in today's world. Students will learn what GIS is, what it is used for, and how to perform basic and core tasks involving GIS analysis. An objective is to help students develop the ability to think critically about cartographic processes and representations as well as develop their skills in creating maps. Students are expected to have basic computer proficiency prior to enrolling in this course.

GSCI 300 - World Geography

3 Credit(s)

The course examines human or cultural geography with a global perspective. It uses a topic centered approach. It is

intended to give the student an appreciation of the interaction between physical geography, environment, and cultural practices.

Electives

(Students must complete a minimum of 8 credit hours from the following)

GSCI 212 - Natural Resource Management on Public Lands

3 Credit(s)

This course will examine public lands management from both a theoretical and descriptive perspective. The major political forces affecting public lands, and the specific details of energy policy, forests, rangelands, national parks, and wildlife on public lands are discussed.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

OR

BIOL 330 Minimum Grade: C-

GSCI 307 - Bio-Geography

3 Credit(s)

The course builds upon topics introduced in the introductory physical geography and general biology courses and synthesizes concepts addressed in other upper-division courses dealing with vegetation science, climatology, soil, historical geology, ecology, and evolution to explain patterns and processes influencing past and present distributions of organisms.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

AND

BIOL 209 Minimum Grade: C-

GSCI 311 - Climatology

4 Credit(s)

This course examines the global patterns of climate and the processes that shape them. Particular attention is given to climate change mechanisms (past & present), human-induced changes to the climate system, and likely future climates. Field- and computer-based methodology relevant to the field of climatology is also emphasized.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 321 - Geomorphology with Environmental Applications

4 Credit(s)

This course is a study of the processes that control the development of the materials and landforms found on the earth's surface. An emphasis is placed upon the hydrologic and variables in generating landforms and human interactions with these formative processes. Field trips, topographic map, and aerial photo exercises are required. Offered spring semester of even-numbered years.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 330 - Nature and Properties of Soils

4 Credit(s)

This course analyzes soils as natural bodies and managed resources, focusing on impacts of landforms, hydrology, nutrients, and organisms on soils. The laboratory includes analysis of soil patterns, methods of sampling, and techniques of determining physical and chemical properties of soils. Course includes three hours of lecture and two hours of laboratory per week.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

GSCI 420 - Remote Sensing

4 Credit(s)

The course considers acquisition and interpretation of remote sensed environmental data, theory and sensors, and manual and computerized interpretation methods.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

AND

GSCI 201 Minimum Grade: C- OR T

GSCI 411 - Mountain Geography

3 Credit(s)

This class focuses on the physical science of mountains, including the origin of mountains as well as the climatic, geomorphic, and ecological processes and patterns found in mountain environments. The impact of mountains on human settlement and activities are discussed, as well as how humans have impacted mountain environments.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 421 - Glacial and Periglacial Geography

3 Credit(s)

This course will examine geomorphological aspects of the cryosphere, giving emphasis to the study of landforms and sediments created by ice sheets and periglacial processes both past and present. Where relevant, the applied aspects of glacial and periglacial geomorphology will be given specific attention.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

Minor in Geology

Go to: Geosciences

Degree Requirements

Completion of the following required courses:

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

GSCI 112 - Earth History

4 Credit(s)

Introduction to the geological evolution of the earth through time using basic principles of stratigraphy and paleontology. Laboratory work includes identification and classification of fossils and correlation of sedimentary environments.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

GSCI 123 - Geology of the San Luis Valley

1 Credit(s)

This course explores the local geology of the San Luis Valley and surrounding areas on day trips. Course is offered during the fall or spring semester. Outdoor activity required.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 350 - Geology Excursion

2 Credit(s)

This course centers around a field trip experience of approximately one week, generally during spring break, to different areas of the southwestern U.S. This course may be taken only twice for credit. An additional fee is required. Camping and outdoor activity is required.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

- GSCI or GSCI 3XX or 4XX elective courses **7 Credit(s)**

Minor in Health Care Administration

Go to: Business

Degree Requirements

A minor in Health Care Administration requires five of the following courses, plus three elective credit hours in business, economics, or nursing, for a total of 18 credit hours.

Completion of 5 of the Following (15 Credits)

HCA 303 - Trends and Issues in Health Care

3 Credit(s)

This course is an introductory Health Care Administration course and will expose the student to the industry and its significant elements and trends of the current health care environment.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

HCA 305 - Health Care Marketing

3 Credit(s)

This course involves an analysis, evaluation, and implementation of marketing strategies within health care and managed-care environments. Designed to develop skills in segmenting customer and medical markets, brand products and services, enhance a communication strategy to the consumer, and develop pricing approaches. Methods and models of marketing fundamentals will be introduced.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

HCA 311 - Health Care Law and Ethics

3 Credit(s)

This course presents an overview of the legal and ethical issues faced by health care consumers, practitioners, and administrators. The course will introduce students to the legal aspects of health care at the federal, state, and local levels. Topics covered will include criminal and civil claims against health care providers, corporate and individual liability, and legal and ethical decision-making, individual liability, and legal and ethical decision-making. HCA 361 Health Care Administration. Instructor permission.

Prerequisite(s):

BUS 211 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

HCA 312 - Health Care Med Terminology

3 Credit(s)

This course will focus on the components of medical terms and the methods for analysis of word definitions. The emphasis will be on learning to define, pronounce, and spell medical terms using prefixes, suffixes, roots, and combining forms related to the anatomy and physiology of the human body. The course will include an introduction to operative, diagnostic, therapeutic, and symptomatic terminology of all body systems.

HCA 325 - Health Care Informatics

3 Credit(s)

This course is a study of record keeping practices in the hospital and physician's office. Emphasis is placed in hospital and medical staff organization, patient record content, procedures in filing, numbering and retention of patient records, quantitative analysis, release of patient information, forms control and design, indexes and registers, reimbursement, regulatory and accrediting agencies, and alternate health care delivery systems. Instructor permission required.

Prerequisite(s):

BUS 120 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

HCA 363 - Health Care Finance

3 Credit(s)

This course is devoted to the practical aspects of finance in health care, an examination of current practices in financial management of health care organizations, and managerial applications to specific problems facing health care managers. The first part of the course will focus on an overview of health care finance, managerial accounting, and financial analysis. The second part will continue with managerial accounting and financial analysis and will concentrate on the various tools used in financial management. Emphasis is placed on unique issues and concerns that result from the regulatory framework of health care organizations. At the conclusion of this course, the student should be able to discuss the financial structure, market forces, controls and techniques used in the health care management field, be able to read and analyze financial statements and budgets and have the skill to interpret financial and operating performance.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

HCA 381 - Health Care Admin Internship

3 Credit(s)

The Health Administration Internship provides the students the opportunity to gain practical experience and integrate classroom knowledge and theory in an administrative setting within the health care industry.

Prerequisite(s):

HCA 303 Minimum Grade: C- OR T

HCA 402 - Public and Population Health

3 Credit(s)

This course consists of an examination of epidemiological concepts and methods of studying the distribution and determinants of morbidity and mortality in human population. The knowledge and skills acquired should enable one to understand and critically review scientific literature dealing with epidemiology concepts and measures. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 455 - Health Care Economics**3 Credit(s)**

This course will examine health care decision-making and the functioning of health care markets in the U.S. The course is not designed as a pure economics theory course but instead emphasizes how you can frame and analyze various health issues using the principles of economics. By doing so, you will gain a powerful new perspective that will help you understand the decisions made by individuals and organizations in the face of scarce resources. Instructor permission.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 462 - Quality Management in Health Care**3 Credit(s)**

Quality is an important aspect of health care; indeed, for most people, it is the most important aspect. Quality is defined in the dictionary as "degree of excellence" or "superiority in kind." Quality of care must be part of both the process and outcome of health care whenever possible. The issue is how does the system develop mechanisms to assure such quality? This course serves as an introduction to the process of quality management in health care organizations. Principles of total quality in health care will be discussed. Differentiation between quality assurance and quality management will also be presented. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 480 - Health Care Policy**3 Credit(s)**

This course is an introduction to health policy. It will focus on how U.S. health policy is developed and will provide students with a general understanding of the policy making process and debates related major U.S. health care legislations.

Prerequisite(s):

HCA 303 Minimum Grade: C- OR T

AND

HCA 305 Minimum Grade: C- OR T

AND

HCA 363 Minimum Grade: C- OR T

Plus One of the Following (3 Credits)

- BUS/ECON/NURS, 300-400 level course

Minor in History

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

Requirements

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

15 Credits of Elective History Courses (300-to 400-level).

Minor in International Business

Go to: Business

Degree Requirements

Minimum of 15 Hours from the Following

BUS 335 - Consumer Behavior

3 Credit(s)

Study of consumer behavior as it relates to the marketing functions. Emphasis on the models of consumer behavior and their application to practical marketing problems.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 383 - International Financial Management

3 Credit(s)

A comprehensive study of international financial markets that covers currency exchange mechanisms in theory and practice. In line with the rapid globalization of the economy, the goal of this course is to analyze the international financial environment and how managers function in this increasingly uncertain global environment. The course will focus on three main areas of international finance: international financial environment, exchange rate behavior, and exchange risk management.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

ECON 425 - Economic Policy

3 Credit(s)

Study of the structure and functions of the U.S. economic system and the use of monetary, fiscal, and other policies to stabilize the economy. Emphasis on historical roots and the evolution into new behavioral economic ideas as well as the complex interplay of policy and economic forces.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

BUS 498 - World Food Distribution/Agricultural Economics

3 Credit(s)

Knowledge and application of economic concepts to the sectors of agriculture including microeconomic and macroeconomic relationships, world markets, and trade.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

BUS 441 - International Marketing

3 Credit(s)

Analysis of opportunities, distinctive characteristics, and emerging trends in foreign markets, including exploration of alternative methods and strategies for entering foreign markets; organizational planning and control; impact of social, cultural, economic, and political differences; and problems of adapting American marketing concepts and methods. This is accomplished through real life planning and implementation of an international marketing plan designed to market a product or service in a foreign country or countries

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

Plus a 3-hour Course

from political science, history or languages in consultation with advisor

Minor in Kinesiology

Go to: Kinesiology Department

A minor in Kinesiology is available in consultation with the department chair. It generally consists of 18 hours of core Kinesiology courses. Physical education activity classes cannot be used to fulfill minor requirements.

Minor in Latino Studies

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

The Latino Studies minor will provide students from departments across campus the opportunity to expand their understanding of economic, social and cultural relationships in an ever more globalized world. This cross-disciplinary minor includes courses from the fields of language, history, literature, sociology and political science. The minor is taught by faculty whose courses touch upon Latino culture, history, politics, language, and society.

Degree Requirements

Completion of the Following Required Course (4 Credits)

SPAN 103 - Elementary Spanish I

4 Credit(s)

A study of the principles of pronunciation, basic level conversation, essentials of grammar, written composition, and reading of materials of graded difficulty.

OR

SPAN 104 - Elementary Spanish II

4 Credit(s)

A continuation of SPAN 103. Covers the principles of pronunciation, conversation, essentials of grammar, written composition, and reading of materials of graded difficulty.

Prerequisite(s):

SPAN 103 Minimum Grade: C- OR T

Elective Courses (15 Hours)

Students must take one course in each of the following disciplines: ENG, POLS, HIST, and SOC from the offerings listed below. The remaining three credit hours may be taken from any of the courses below or any 300 or 400 level Spanish course.

ENG 365 - Ethnic and Minority Literature

3 Credit(s)

A study of the literature of Native American, African-American, Chicano, and other American ethnic and minority groups.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

ENG 375 - Chicano Literature

3 Credit(s)

This course explores the canon of Chicana/o Literature and its multiple influences. Specifically, the course deals with the cultural, political and societal climates that necessitated the literature. The course will focus on oral tradition and its evolution into other genres of Chicana/o Literature (poetry, fiction, & essay). Chicana/o Literature (poetry, fiction, & essay).

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

HIST 328 - Chicano History

3 Credit(s)

A survey of the historical development of the character, economy, social structure, politics, culture, and ideas of the Spanish-speaking people of Mexican descent in the U.S. from settlement until present, with particular attention given to the San Luis Valley.

HIST 355 - Latin America to 1830

3 Credit(s)

A survey of the economic, political, and social dimensions of the colonial system. Themes include the pre-Columbian civilizations of the Americas, the imposition of European rule, the place of Latin America in the emerging Atlantic economy, and the independence movements of the early 19th century. Major emphasis will be given to the "core" areas of Mexico, Peru, and Northeastern Brazil, but other regions will also be considered.

HIST 356 - Latin America Since 1830

3 Credit(s)

This course will examine the evolution of Latin America from the aftermath of independence to the present. Major themes include: the incorporation of Latin America into the global economy, the effect of the export economy on the region's peasant populations, the building of national states, the fate of revolutionary struggles in the 20th century, and Latin America's "neocolonial" relationship with the United States.

HIST 357 - Mexico

3 Credit(s)

Historical survey of the social, intellectual, and political developments from the conquest to the present.

POLS 325 - Political Mvmnts/Latin America

3 Credit(s)

This course broadens students' understanding of Latin America by introducing them to their political aspirations and modes of organization.

POLS 468 - U.S.-Latin American Relations

3 Credit(s)

This course will examine U.S.-Latin American Relations from the Monroe doctrine to the Present. It will explore recent

developments in U.S.-Latin American relations, particularly the growing interdependence and the impact of the end of the cold war.

SOC 318 - Race, Class, and Gender

3 Credit(s)

The focus of this course is on the interrelated ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result and the dynamics of change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 365 - Race and Ethnicity in the U.S.

3 Credit(s)

This course provides a sociological approach to race and ethnic relations in the U.S. today. This course introduces the basic sociological theories and perspectives related to the study of race and ethnicity, the histories, and present status of different racial and ethnic groups in the United States and raises questions about continuing racial discrimination and inequality in our society. Issues of defining race, racial identity, interpersonal and institutional discrimination, segregation, and affirmative action (among others) are explored.

Note

ENG 375, HIST 379, POLS 379, and SOC 379 "Special Topics" courses that have content relevant to Latino Studies may also count as electives for the Latino Studies Minor. To determine a course's eligibility for inclusion in the minor, please consult with the student's advisor or the Chair of the HAPPSS Department.

Minor in Management

Go to: Business

Degree Requirements

A minor in management requires 18 hours in business and/or economics, of which a minimum of 15 must be in management.

Minimum of 15 Hours from the Following

BUS 315 - Sales and Sales Management

3 Credit(s)

This course is designed to introduce students to management techniques as they relate specifically to the marketing and sales area. Topics covered include: the selling process, compensation systems, motivation and leadership, time and territory management, sales forecasting, quotas, and evaluating the sales force.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 362 - Human Resource Management

3 Credit(s)

Analysis of techniques used to organize, motivate, and manage personnel in public or private organizations. Includes case studies and examines current literature and the current legal environment..

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

BUS 401 - Organizational Behavior

3 Credit(s)

Participants in the course will explore the theory of human relations in organizations. The emphasis will be on the application of behavioral science knowledge to contemporary organizational issues, which may include individual and group dynamics, motivation, leadership, organizational change, and development.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 418 - Leadership Strategies

3 Credit(s)

This course presents contemporary theories and approaches to leadership practices in modern organizations. Students learn how effective leadership can assist in the creation of a strong organizational culture and the implications external forces have on individual leadership development and continued growth.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 419 - Organizational Change/Develop

3 Credit(s)

The study of planned and unplanned change in organizations to include diagnosis, planning, and implementation of organizational change initiatives. Emphasis is on teamwork within organizations and survey development.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 466 - Business Ethics Decision Making

3 Credit(s)

This course explores various ethical issues facing business leaders in modern society. Students will utilize current issues to analyze ethical dilemmas and decision-making processes common to modern organizations. Emphasizes critical thinking, critical reading, and the importance of professional ethics.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 467 - Creativity and Innovation

3 Credit(s)

Course objectives are to develop skills in generating new and original ideas, increase ability to convert ideas into action and success, and increase knowledge and skill in creative problem solving as applied to business scenarios.

Prerequisite(s):

BUS 361 Minimum Grade: C-

BUS 468 - New Business Venturing

3 Credit(s)

This course introduces students to starting and operating a business. Students will be exposed to how business interacts with government, financial institutions, and society. This course will examine and study the process, challenges, risks, and rewards of starting up a new business. The student will be equipped with tools required to start their own business.

Prerequisite(s):

BUS 365 Minimum Grade: C-

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Plus 3 Hours of Business or Economics Courses, 300-400 Level

Minor in Marketing

Go to: Business

Degree Requirements

Minimum of 15 credit hours from the following:

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various

institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 315 - Sales and Sales Management

3 Credit(s)

This course is designed to introduce students to management techniques as they relate specifically to the marketing and sales area. Topics covered include: the selling process, compensation systems, motivation and leadership, time and territory management, sales forecasting, quotas, and evaluating the sales force.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 335 - Consumer Behavior

3 Credit(s)

Study of consumer behavior as it relates to the marketing functions. Emphasis on the models of consumer behavior and their application to practical marketing problems.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 345 - Advertising

3 Credit(s)

Discusses the history, purposes, and regulations of the advertising industry. Topics covered include creative principles, media advantages and disadvantages, media planning, regulation of advertising, and coordination with other promotion activities.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 356 - Retailing

3 Credit(s)

Study of marketing and management problems faced in the operation of a retail business. Emphasis is given to techniques for solving problems in location, management, and merchandising, especially with the integration of Internet retailing (E-Tailing) as both a competitor and an extension of the storefront business.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 385 - Sports Marketing

3 Credit(s)

Illustrates the dynamic, progressive and influential nature of sports marketing. Explores the sport marketing concept as a consumer-driven, integrated, goal-oriented philosophy for a team, event, organization or athlete. Topics covered include: athletic endorsements, team sports, event sponsorships and alternative sports.

BUS 441 - International Marketing

3 Credit(s)

Analysis of opportunities, distinctive characteristics, and emerging trends in foreign markets, including exploration of alternative methods and strategies for entering foreign markets; organizational planning and control; impact of social, cultural, economic, and political differences; and problems of adapting American marketing concepts and methods. This is accomplished through real life planning and implementation of an international marketing plan designed to market a product or service in a foreign country or countries

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 448 - Interactive/Social Media Marketing

3 Credit(s)

This course focuses on relationship marketing, interactive marketing, integration of consumer data, Internet marketing (E-commerce), media advertising, catalogs, mailing lists, telemarketing, and the use of direct marketing techniques to replace or enhance the traditional marketing methods of retail and direct sales.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 449 - Marketing in the 21st Century

3 Credit(s)

This course provides the practical tools and strategies required to successfully leverage social networks, capitalize on their powerful word-of-mouth lift, and how to measure these interactive marketing efforts. These tools will be used on an actual social media marketing campaign for a business or non-profit entity. Current and future marketing tools will be discussed and evaluated.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

AND

BUS 448 Minimum Grade: C- OR T

BUS 454 - Market Research & Information

3 Credit(s)

Study of the theory and methods used in marketing research to address marketing problems. May include the completion of a research project where students learn by performing a research project from problem formulation to writing a research report. Also prepares the students for evaluating research performed by others.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 460 - Marketing Management**3 Credit(s)**

Twelve hours of marketing courses and senior status required. Capstone course in marketing. Study of the problems faced by marketing managers as they make decisions and develop policies.

Prerequisite(s):

BUS 454 Minimum Grade: C- OR T

HCA 305 - Health Care Marketing**3 Credit(s)**

This course involves an analysis, evaluation, and implementation of marketing strategies within health care and managed-care environments. Designed to develop skills in segmenting customer and medical markets, brand products and services, enhance a communication strategy to the consumer, and develop pricing approaches. Methods and models of marketing fundamentals will be introduced.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

Plus 3 Credit Hours of Business or Economics Courses, 300-400 Level

Minor in Mathematics

Go to: Mathematics

Minor Requirements**MATH 120 - Calculus I GT-MA1****5 Credit(s)**

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

MATH 220 - Calculus III

4 Credit(s)

This course is an introduction to the calculus of functions of several variables. Typical topics include three-dimensional analytic geometry, vectors, parametric curves and surfaces, arc length and curvature, limits, continuity, partial derivatives, gradients, directional derivatives, tangent planes, multiple integrals, vector fields, line and surface integrals, Green's theorem, Stokes' Theorem, and the divergence theorem.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 250 - Introduction to Mathematical Thought

3 Credit(s)

This course looks at topics central to further study in mathematics. These include symbolic logic, especially as it applies to mathematical proof; methods of mathematical proof such as direct proof, indirect proof, and by induction; use and meaning of mathematical quantifiers and predicates; sets; relations; equivalence relations and partitions; order relations; and functions and their properties.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

- MATH 3XX Electives approved by the dept. Chair.

Minor in Music

Go to: Music

Entrance Requirements

New music majors and minors are required to complete an entrance audition for admittance to the Department of Music.

Placement Examinations

- Transfer and new students in music must take placement examinations as appropriate in applied music and music theory.
- Students who have not been enrolled in applied music or music theory for two or more years must reaudit for admittance into the Department of Music and take a theory placement exam.

Course Completion Requirements

MUS 000 - Recital Attendance

0 Credit(s)

A requirement for music majors and minors, which consists of attendance at a designated number of concerts/recitals each semester.

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

MUS 103 - Introduction to Music Technology

1 Credit(s)

An introduction to music technology, covering a broad range of topics such as music notation, MIDI, music sequencing, mixing, and basic audio editing. The programs to be used include Finale, Garageband, and Audacity, and students compose music utilizing basic concepts of music fundamentals and music theory. The goal of this course is to equip students with music technology skills and knowledge that will be of benefit during their collegiate and professional careers.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 104 - Music Theory I

3 Credit(s)

Development of basic music skills and harmony with practical application through part-writing and composition.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 108 - Aural Skills I

1 Credit(s)

Foundational work in sight singing and written dictation.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 204 - Music Theory II

3 Credit(s)

Advanced study in music writing and analysis with emphasis on tonal and chromatic harmony.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

MUS 208 - Aural Skills II

1 Credit(s)

Emphasis on sight singing in parts, more difficult keys and intervals, modulations, and rhythmic patterns in dictation.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

AND

MUS 108 Minimum Grade: C- OR T

Co-requisite(s): MUS 204

MUS 140 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

MUS 141 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 140 Minimum Grade: D OR T

2 Semesters (2 Credits Total)

MUS 245 - Concert Band

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard wind or percussion instrument. May be repeated for credit.

MUS 247 - Concert Choir

1 Credit(s)

Open to all qualified students with repertoire selected from the standard choral concert literature. May be repeated for credit.

OR

MUS 257 - Chamber Choir

1 Credit(s)

An advanced mixed choral ensemble, open to students by audition. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

MUS 250 - Orchestra

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard orchestral instrument. May be repeated for credit.

Minor in Music Business

Go to: Business

Go to: Music

Degree Requirements

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

Optional class

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 362 - Human Resource Management

3 Credit(s)

Analysis of techniques used to organize, motivate, and manage personnel in public or private organizations. Includes case studies and examines current literature and the current legal environment..

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 401 - Organizational Behavior

3 Credit(s)

Participants in the course will explore the theory of human relations in organizations. The emphasis will be on the application of behavioral science knowledge to contemporary organizational issues, which may include individual and group dynamics, motivation, leadership, organizational change, and development.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

Minor in Philosophy

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

Degree Requirements

Required Core

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

Electives (15 hours from the following)

PHIL 202 - Ethics

3 Credit(s)

An examination of criteria governing ethical responses in typical situations as presented by representative thinkers. The application of principles in the development of reasonable standards of conduct and in the formulation of codes of ethics.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

PHIL 300 - Philosophy in Film and Literature

3 Credit(s)

This course will approach film and literature as a manifestation of thought which contains and reveals philosophical reflection and inquiry. The course will provide an exploration of the particular medium that is film, rendering more accessible its unique ways of advancing meaning through the combined and controlled use of color, texture, sound, perspective, transitions, and time, as well as narrative content. Equally, literary pieces will provide an exploration of aspects of the human condition and significant philosophical inquiry through narration, symbolism, tone, and style. Topics to be explored include: Metaphysics, Epistemology, Social/Political Philosophy, Absurdism and Existentialism, Morality and Choice/Free Will, Self and Identity, and Aesthetics.

PHIL 304 - Religions of the Western World

3 Credit(s)

A survey of major religious traditions of the west and their early influences. The course will cover but is not limited to Zoroastrianism, Mithraism, Manichaeism, Greek and Roman, Judaism, Christianity, Islam.

PHIL 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

PHIL 436 - American Thought

3 Credit(s)

The historical, philosophical, and literary ideas that have influenced American life and thought. Same as POLS 436.

PHIL 466 - Ancient Political Theory

3 Credit(s)

The first course of a two-semester course sequence designed to provoke philosophical reflection regarding the perennial, and still fundamental, questions about man in relation to the state. The first semester will focus on the period from Plato to St. Thomas. Same as POLS 467.

PHIL 467 - Modern Political Theory

3 Credit(s)

The second course of a two-semester course sequence designed to provoke philosophical reflection regarding the perennial, and still fundamental, questions about man in relation to the state. The second-semester course will treat thinkers for Machiavelli through Marx. Same as POLS 467.

PHIL 479 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

Minor in Physics

Go to: Engineering and Computer Science

Required Courses

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must

be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T

AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T

AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

PHYS 306 - Modern Physics

4 Credit(s)

A survey of topics in modern physics including: special relativity, properties of electromagnetic radiation, and introduction to quantum mechanics with applications to barriers and atoms. Additional topics vary from year to year and may include statistical mechanics, solid state physics, properties on nuclei and their transformations, natural and induced radioactivity, and elementary particles. Offered spring semesters of even years.

Prerequisite(s):

PHYS 232 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

AND

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 132 Minimum Grade: C- OR T

- PHYS XXX Electives approved by the department chair (4 hours)

Minor in Political Science

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

Degree Requirements

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

15 Elective Credits Chosen in Consultation with Department Head

Minor in Psychology

Go to: Psychology

A minor in psychology is a great complement for many majors, especially in fields like nursing and business where today's employers are putting more and more emphasis on interpersonal skills. The minor will provide a broad overview of several important areas in psychology, all of which will help students appreciate why people behave in certain ways.

9 Credits from the Following

PSYC 204 - Child Development

3 Credit(s)

The goal of this course is to examine the interaction of heredity and environment on human development from conception through pre-adolescence. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Some topics include the birth process, early cognitive and language development, gender socialization, the impact of parenting styles, and moral reasoning.

Prerequisite(s):

PSYC 101 Minimum Grade: C or T

PSYC 205 - Adolescent and Adult Development

3 Credit(s)

This course continues the study of life-span development from adolescence through old age and death. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Topics include identity formation, sexual orientation, marriage, models of aging, changes in cognition, social developments, and coping with old age.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 230 - Psychology of Mental Health

3 Credit(s)

The purpose of this course is to provide students with the historical and social background necessary to understand mental health issues. Students will examine the psychodynamic, behavioral, and cognitive approaches related to the development and treatment of mental disorders and their classifications. Topics will include schizophrenia, depression, bipolar, and personality disorders.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 245 - Brain and Behavior

3 Credit(s)

This course provides students with a basic overview of the biological processes underlying human behavior. This course begins by presenting fundamental nervous system structure and processes and concludes by examining the role of biology in complex behaviors. Clinical case studies are used to illustrate psychological and neurological disorders. Sample topics include evolution and genetics, neural communication, major brain structures and their functions, human brain damage, sleep and dreaming, drug addiction, memory and amnesia, and stress and illness.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 265 - Personalities in Perspective

3 Credit(s)

This course provides an introduction to the psychodynamic, trait, behavioral, biological, cognitive and humanistic approaches to personality. Specific theories and current research within each approach are reviewed. The course covers such theorists as Freud, Jung, Erikson, Skinner, Bandura, Cattell, Allport, and May.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

Plus 9 Credits from any 300 or 400 Level Course

Minor in Sociology

Go to: Sociology

A Minor in Sociology (18 hours excluding SOC 201) is available through consultation with any sociology faculty member

Minor in Spanish

Go to: Languages, Literature, and Media Communication

Minor in Spanish (7 courses) available in consultation with any Spanish faculty member.

Minor in Sport Psychology

Go to: Psychology

A Minor in Sport Psychology Consists of the Following

KIN 302 - Sport Psychology

3 Credit(s)

Sport psychology is primarily concerned with the interaction between psychological variables and participation in sport and exercise. This course will review this interaction by addressing variables that affect the individual athlete, influence sport and exercise environments, shape group processes, enhance health and wellbeing, improve performance, and facilitate psychological growth and development in sport participants from diverse populations.

PSYC 205 - Adolescent and Adult Development

3 Credit(s)

This course continues the study of life-span development from adolescence through old age and death. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Topics include identity formation, sexual orientation, marriage, models of aging, changes in cognition, social developments, and coping with old age.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

KIN 341 - Human Motor Development

3 Credit(s)

This course is designed to educate Kinesiology majors in the principles of human motor behavior and its influence on cognitive, affective, and psychomotor development throughout the lifespan. It will introduce students to factors that affect the intellectual, social, emotional, and physical development, growth and maturation of individuals relative to motor acquisition and regression.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

AND

BIOL 206 Minimum Grade: C- OR T

PSYC 386 - Theory and Practice

3 Credit(s)

This course presents the historical underpinnings of the major theories and principles of learning, and how they are used in applied settings. Classic learning theories are contrasted with contemporary approaches. Students will learn cognitive behavioral assessment and intervention strategies. Topics include traditional behavior modification, as well as contemporary social learning theory and cognitive-behavioral change strategies.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

KIN 380 - Diversity, Equity Sport, and Society

3 Credit(s)

This course has a two-fold purpose: first, it is designed to provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask questions and think critically about sport as a part of society. This course will explore issues around diversity, equity and inclusion in sport and society.

PSYC 211 - Introduction to Statistics Lecture/Lab

4 Credit(s)

In this course, students will develop a working appreciation of statistical concepts and applications as employed in the behavioral sciences. The course presents descriptive and inferential statistics and their applications. The laboratory component of this course gives students an opportunity to develop skills in using statistical software.

Prerequisite(s):

PSYC 101 Minimum Grade: C- or T

AND

MATH 97 Minimum Grade: S-A or S-B or S-C or T

OR

MATH 99 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 121 Minimum Grade: C- or T

OR

MATH 140 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Plus One of the Following

PSYC 360 - Psychology of Gender

3 Credit(s)

This course will examine gender development from a variety of theoretical approaches, including evolutionary, cognitive, social learning, and cross-cultural. Topics will include how gender influences thinking, communication, interpersonal relationships, education, work, and family.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

PSYC 375 - Human Sexuality**3 Credit(s)**

In this multidisciplinary course, students will be introduced to the physiological, medical, sociological, psychological, legal, ethical, moral, and educational facets of human sexuality. Topics in this course include male and female sexual anatomy and sexual response, contraception and disease control, sexually transmitted diseases, and sexual orientation.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 265 - Personalities in Perspective**3 Credit(s)**

This course provides an introduction to the psychodynamic, trait, behavioral, biological, cognitive and humanistic approaches to personality. Specific theories and current research within each approach are reviewed. The course covers such theorists as Freud, Jung, Erikson, Skinner, Bandura, Cattell, Allport, and May.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

Minor in Taxation

Go to: Business

Degree Requirements

A minor in Taxation requires a minimum of 18 hours from the list below, completed with a grade of C- or T or better.

A Minimum 18 Credits from the Following**BUS 355 - Individual Income Taxation**

4 Credit(s)

This course involves the study of federal income tax on individual and property transactions. Objectives of taxation are given major emphasis. The Internal Revenue Code is discussed in addition to textbook material in order to acquaint the student with the ultimate source of tax law. Income tax return problems and tax cases may be assigned to provide practical application of the tax law.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 358 - Accounting Ethics

3 Credit(s)

Ethics as it applies to the accounting and auditing professions and will be the focus of this course. Emphasis will be on the concept of independence, along with integrity, objectivity, ethical reasoning, and other core values necessary for a high level of professional ethics in the accounting profession.

Prerequisite(s):

BUS 306 Minimum Grade: C- OR T

BUS 371 - Payroll Accounting and Taxation

3 Credit(s)

This course is devoted to the principles of payroll computations and administration including creation and maintenance of payroll records as well as proper payroll tax depositing and reporting.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 377 - Agricultural Taxation

3 Credit(s)

This course is devoted to specific income tax laws associated with agricultural business to include farmers and ranchers both as individuals and as part of taxable entities.

Prerequisite(s):

BUS 355 Minimum Grade: C- OR T

BUS 455 - Entity Taxation

4 Credit(s)

Business 455 concentrates on the federal income tax consequences of the formation, normal operation, and the dissolution of corporations, partnerships, and fiduciaries. Other taxation problems of special interest may be covered.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 465 - Estate, Gift, and Fiduciary Tax Law

3 Credit(s)

This course will address the fundamentals of Estate, Gift, and Fiduciary tax law. Topics will include Federal Gift Tax, death transfer tax laws, and fundamentals and reporting returns for estates.

Prerequisite(s):

BUS 455 Minimum Grade: C- OR T

BUS 381 - Business Internship

1 to 3 Credit(s)

Junior standing and approval of the department chair required. The internships are planned, meaningful work experiences that are academic in nature. Supervision consists of a site supervisor who is a qualified professional in the business or organization where the internship is arranged and a faculty sponsor who is a full-time professor in the School of Business, usually from the student's major. The site supervisor evaluates the work performed by the student on the job. The faculty sponsor is responsible for maintenance of academic quality and assigns the course grade. (30 contact hours=1 credit hour)

OR

BUS 481 - Business Internship II

1 to 3 Credit(s)

Senior standing and approval of the Department Chair required. The internships are planned, meaningful work experiences that are academic in nature. Supervision consists of a site supervisor who is a qualified professional in the business or organization where the internship is arranged and a faculty sponsor who is a full-time professor in the School of Business, usually from the student's major. The site supervisor evaluates the work performed by the student on the job. The faculty sponsor is responsible for maintenance of academic quality and assigns the course grade (30 contact hours=1 credit hour).

BUS 179 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

OR

BUS 379 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

Note

*The internship placement must be approved by accounting faculty.

**A maximum of 3 credit hours may be applied to the Taxation minor.

Minor in Theatre

Go to: Theatre

The minor in theatre arts is offered for those who wish to be more effective in communicating the knowledge of their major. The minor is highly relevant and practical in combination with other majors such as business, government, sociology, English, guidance and counseling, music, journalism, education, speech correction, health, physical education and recreation, and all pre-professional studies. Courses are to be selected in consultation with the program chair.

Minor in Water Studies

Go to: Interdisciplinary Studies

Water is the "lifeblood" of the San Luis Valley, greatly impacting the people and communities here. Water underlies our connection to the environment and wildlife, culture and history, agriculture and economy, and the strong sense of place that is core to the identity of the people here.

Salazar Rio Grande del Norte Center
SalazarRioGrandeCenter@adams.edu
719-587-8154

Water Studies Minor Degree Plan (18 Credits)

Required Courses (6 Credits)

WATR 101 - Water Essentials: How Water Works

3 Credit(s)

This course is an introduction and overview of water in the West, from its basic chemical structure and physics as well as hydrology and water's role in nature to how water serves and is managed as a beneficial resource for people. This course introduces foundational concepts of water's functional properties, how humans have put water to work and how we have developed systems of water allocation, administration, and management, including an overview of core terminology, and fundamental principles of water management. The course will focus on the Western water environment and issues, with specific discussions on the application and administration of water in Colorado's Rio Grande Basin.

WATR 201 - Fundamentals and Functions of Water

3 Credit(s)

This course is the second in a two-course series emphasizing essential water education. It will expand on fundamental concepts of ground and surface water functions and management as introduced in the prerequisite course, WATR 101 Water Essentials: How Water Works in the West. The design of this course is to explore the hydrologic processes and cycle in terms of both ground and surface water; examine the environmental aspects of watersheds that affect the hydrologic output, including forest health, precipitation accumulation, and infrastructure regulating surface water runoff; examine and analyze the administration of water and agricultural water use, with a focus and field experiences

in the San Luis Valley and Rio Grande Basin of Colorado. The course will include required field trips.

Prerequisite(s):

WATR 101 Minimum Grade: C- OR T

Electives (Choose 12 Credits)

ANTH 330 - Humans and Water

3 Credit(s)

This class will explore the relationship between humans and water through space and time, focusing on the American West. We will look at how different cultural groups interact with and manipulate water, as well as how they view the natural resource. In addition, we will analyze how changes in water resources influenced human cultures.

BUS 384 - Natural Resources/Water Law

3 Credit(s)

The goal of this course is to provide students with knowledge of the regulatory responsibilities related to agriculture production and operations with respect to natural resources and water. The course will cover federal, state, and local requirements as well as application to agribusiness endeavors.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 211 Minimum Grade: C- OR T

ECON 360 - Natural Resource Economics

3 Credit(s)

This course studies the usage of natural resources in the economy, the value of natural resources to society, and the allocation of renewable and nonrenewable resources. The course introduces economic theories for efficient management of natural resources and considers sustainability, conservation, and preservation. The course will consider resources, such as water, on a local scale as well as a global scale.

ENG 420 - Environmental Literature

3 Credit(s)

This course is a survey of environmental literature poetry, fiction, and non-fiction spanning from the beginning of the conservation movement with Thoreau through the modern environmental movement with Carson, and to the present day with a focus on sustainability and the Southwestern United States with attention paid to the environmental impacts on indigenous populations and minority groups and authors, particularly Latinx. Students will analyze, criticize, reflect, and write about the reading, but also reflect upon field visits to farms, ranches, monuments, and parks throughout the region.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

HIST 305 - The American West

3 Credit(s)

Historical survey of the Indian-, Hispanic-, and English-speaking groups of the West. Emphasis is on the frontier period.

HIST 340 - Water and Equity

3 Credit(s)

This course is an examination of water use and distribution among several cultures. Special attention will be devoted to Latino communities and current issues affecting aspects of equity in contemporary water policy.

OES 101 - Outdoor Recreation Essentials

3 Credit(s)

This course is a general introduction to outdoor recreation history, theories, natural resource management, and current trends in the outdoor recreation industry . Students are also introduced to essential outdoor skills for camping and backpacking including trip planning, equipment selection and care, food preparation, Leave No Trace environmental ethics, and risk management. Field trips are required including overnight trips.

OES 370 - Wildland Recreation Management

2 Credit(s)

This course immerses students into the field of recreation ecology. Hands-on experience participating in local stewardship projects with federal and state agencies will be a component of the course. Students will gain knowledge and experience with how agencies and organizations identify recreational impact oriented problems, collect data, prioritize, allocate resources, and collaborate to accomplish conservation and stewardship objectives. Students will practice with professional approaches and strategies for planning and monitoring recreational use. Students are required to participate in a variety of learning experiences in various locations throughout the San Luis Valley.

Co-requisite(s): OES 370L

PHIL 320 - Water Ethics

3 Credit(s)

This class will explore the ethical concerns of water (re)production, usage, and distribution according to concepts of rights and responsibilities, socio-historical conditions, available resources, cultural usage, evaluation, and governance.

Minor in Women's and Gender Studies

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

Examine how ideas about gender and sexuality shape social roles and identities within a culture. With a choice of two tracks (Women's Studies and Gender and Sexualities) the minor in Women's and Gender Studies extends and enriches any major degree by heightening your awareness of the range of human experience, potential, and accomplishment.

Women's Studies Track

Students must take 2 required courses and 4 electives, as approved by the WGS advisor, for a total of 18 semester hours.

Required of All Minors, Who Are Advised to Take the Courses Early in Their Studies

WS 201 - Women's Studies

3 Credit(s)

An interdisciplinary analysis of women's position in society as presented through the disciplines of history, sociology, anthropology, theology, psychology, literature, and the fine arts. The course will examine theoretical approaches to the differential access to power between men and women and the existence of patriarchy in Western culture.

ENG 320 - Literature and Sexualities

3 Credit(s)

An examination of a variety of sexual identities and expressions as portrayed in literature.

Two of the Following Courses (6 Hours)

AR 367 - Women Artists in Art History

3 Credit(s)

A survey of women artists in the history of art from antiquity to the present.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

POLS 393 - Women, Politics, and Culture

3 Credit(s)

Interdisciplinary analysis of politics and culture. Course examines the role of gender in the political culture of the United States and selected societies in industrialized and developing nations. Of special interest to those wishing to pursue an interest in women's studies and/or cultural anthropology.

SOC 318 - Race, Class, and Gender

3 Credit(s)

The focus of this course is on the interrelated ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result and the dynamics of change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

THTR 329 - Women and Drama

3 Credit(s)

A survey of the history and literature associated with women in theatre. The course will include the history of actual women involved in the evolution of western and eastern theatre traditions as well as playscripts which deal with the subject of women's issues. There will be a strong emphasis on the incorporation of contemporary dramatic theory, especially feminist theory, to analyze dramatic texts. The course will cover Greek through Contemporary Drama.

PSYC 360 - Psychology of Gender

3 Credit(s)

This course will examine gender development from a variety of theoretical approaches, including evolutionary, cognitive, social learning, and cross-cultural. Topics will include how gender influences thinking, communication, interpersonal relationships, education, work, and family.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

One of the Following Courses (3 Hours)

ENG 403 - Shakespeare

3 Credit(s)

Combines study of comedies, histories, and tragedies.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

COMM 420 - Rhetoric of Popular Culture

3 Credit(s)

This course takes seriously the idea human discourse is inherently persuasive. Further, it takes seriously the idea that popular culture is still human culture, and therefore worthy of analysis to understand how it influences human relationships and political struggle. Students will examine the messages and persuasive discourse found in everyday "texts" in film, television, the Internet, music, technology, celebrity, fashion, and other modes of cultural consumption.

COMM 430 - Diversity in Media

3 Credit(s)

Students will analyze how US media represents traditionally marginalized people in the United States. The course will be primarily discussion based, with students and instructor working together to generate ideas and critique dominant ideologies.

Prerequisite(s):

COMM 350 Minimum Grade: C- OR T

One of the Following Courses (3 Hours)

ENG 385 - Women and Literature

3 Credit(s)

A survey of literature written by women beginning with Sappho and focusing on the western tradition. An introduction to feminist literary criticism.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

SOC 419 - Gender and Society

3 Credit(s)

The aim of the course is for students to become familiar with the continuing differences and inequalities between women and men in the contemporary United States, and to begin to explain why and how they occur through a sociological lens. Understanding gender as it relates to other social identities (for example, race, class and sexuality) is an important organizing framework of the course. Students will learn about the gendered arrangements in a variety of social contexts such as education, the media, work and the economy, and the family.

PSYC 375 - Human Sexuality

3 Credit(s)

In this multidisciplinary course, students will be introduced to the physiological, medical, sociological, psychological, legal, ethical, moral, and educational facets of human sexuality. Topics in this course include male and female sexual

anatomy and sexual response, contraception and disease control, sexually transmitted diseases, and sexual orientation.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

HIST 320 - History of American Women

3 Credit(s)

This course examines the role of women in American History with special emphasis on how the story of women is told by historians over time. It examines not only the lives of many famous white women, but also the experience of women from various ethnicities and economic backgrounds. In addressing how Americans construct their understanding of women's lives in the U.S., the course will also reassess how focusing on women's lives might alter one's understanding of the broader patterns and interpretations of American History.

BUS 394 - Women and Power: Gender, Business & Leadership

3 Credit(s)

The rise of women into powerful leadership roles in business, politics, and entrepreneurship is among one of the most profound social transformations in recent decades. This course examines contemporary issues relevant to women as leaders. Topics include recent research on women and applied leadership in the workplace; skills and strategies for negotiation, coalition-building and influencing the career path to leadership, and discussions by women from diverse personal and professional backgrounds with similar levels of career achievement.

Gender and Sexualities Track

Students must take 2 required courses and 4 electives, as approved by the WGS advisor, for a total of 18 semester hours.

Required of All Minors, Who Are Advised to Take the Courses Early in Their Studies

ENG 320 - Literature and Sexualities

3 Credit(s)

An examination of a variety of sexual identities and expressions as portrayed in literature.

WS 201 - Women's Studies

3 Credit(s)

An interdisciplinary analysis of women's position in society as presented through the disciplines of history, sociology, anthropology, theology, psychology, literature, and the fine arts. The course will examine theoretical approaches to the differential access to power between men and women and the existence of patriarchy in Western culture.

Two of the Following Courses (6 credits)

COMM 420 - Rhetoric of Popular Culture

3 Credit(s)

This course takes seriously the idea human discourse is inherently persuasive. Further, it takes seriously the idea that popular culture is still human culture, and therefore worthy of analysis to understand how it influences human relationships and political struggle. Students will examine the messages and persuasive discourse found in everyday "texts" in film, television, the Internet, music, technology, celebrity, fashion, and other modes of cultural consumption.

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ENG 210 Minimum Grade: C- OR T

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3 Credit(s)

This course will examine gender development from a variety of theoretical approaches, including evolutionary, cognitive, social learning, and cross-cultural. Topics will include how gender influences thinking, communication, interpersonal relationships, education, work, and family.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

One of the Following Courses (3 credits)

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3 Credit(s)

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Prerequisite(s):

AR 105 Minimum Grade: C- OR T

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Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

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3 Credit(s)

A survey of the history and literature associated with women in theatre. The course will include the history of actual women involved in the evolution of western and eastern theatre traditions as well as playscripts which deal with the subject of women's issues. There will be a strong emphasis on the incorporation of contemporary dramatic theory, especially feminist theory, to analyze dramatic texts. The course will cover Greek through Contemporary Drama.

One of the Following Courses (3 credits)

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3 Credit(s)

The rise of women into powerful leadership roles in business, politics, and entrepreneurship is among one of the most profound social transformations in recent decades. This course examines contemporary issues relevant to women as leaders. Topics include recent research on women and applied leadership in the workplace; skills and strategies for

negotiation, coalition-building and influencing the career path to leadership, and discussions by women from diverse personal and professional backgrounds with similar levels of career achievement.

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3 Credit(s)

A survey of literature written by women beginning with Sappho and focusing on the western tradition. An introduction to feminist literary criticism.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

POLS 393 - Women, Politics, and Culture

3 Credit(s)

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3 Credit(s)

In this multidisciplinary course, students will be introduced to the physiological, medical, sociological, psychological, legal, ethical, moral, and educational facets of human sexuality. Topics in this course include male and female sexual anatomy and sexual response, contraception and disease control, sexually transmitted diseases, and sexual orientation.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

SOC 419 - Gender and Society

3 Credit(s)

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Mentor Teacher Endorsement

Go to: Educational Preparation

Required Courses

ED 587 - Mentor Teacher Seminar I

3 Credit(s)

The Mentoring and Coaching Seminar I course is the co-requisite for ED 588 Mentoring and Coaching Internship I. This seminar course will support educators in developing their art of mentoring and coaching through intention, planning, practice, and reflection to actively engage in enhancing teaching practices and addressing systemic issues to aid in the transformation of schools.

Co-requisite(s): Admission to Mentor Endorsement Program and **ED 588**

ED 588 - Mentoring and Coaching Internship I

3 Credit(s)

The Mentoring and Coaching Internship I course is the co-requisite for ED 587 Mentor Seminar I. This internship will support educators in developing their art of mentoring and coaching through intention, planning, practice, and reflection to actively engage in enhancing teaching practices and addressing systemic issues to aid in the transformation of schools.

Grade Mode: P/F

Prerequisite(s):

Admission to Mentor Endorsement Program and **ED 587**

ED 594 - Mentor Teacher Seminar II

3 Credit(s)

This internship will support educators in developing their art of mentoring and coaching through intention, planning, practice, and reflection to actively engage in enhancing teaching practices and addressing systemic issues to aid in the transformation of schools.

Prerequisite(s):

Admission to Mentor Endorsement Program and completion of ED 587

Co-requisite(s): ED 595

ED 595 - Mentoring and Coaching Internship II

3 Credit(s)

This internship will support educators in developing their art of mentoring and coaching through intention, planning, practice, and reflection to actively engage in enhancing teaching practices and addressing systemic issues to aid in the transformation of schools.

Grade Mode: P/F

Prerequisite(s):

Admission to Mentor Endorsement Program and completion of ED 588

Co-requisite(s): ED 594

General Education Requirements for Undergraduates

As part of the Graduation Requirements for Undergraduates, Adams State University has prescribed a program of general education for all students seeking associate or baccalaureate degrees. This is done in the belief that our graduates must possess knowledge, skills, competencies, and an acquaintance with major areas of knowledge commonly possessed by educated persons.

Adams State University general education requirements align with the State of Colorado GT-Pathways guaranteed transfer curriculum. Students who have completed the GT-Pathways curriculum in its entirety meet Adams State general education requirements. Likewise, any GT-Pathways course, regardless of where it was completed, will meet the equivalent requirement in the relevant GT-Pathways category.

A variety of courses are available in each general education category that meet the required content and competencies for general education. Many of the general education requirements are included in Adams State Institutional Learning Outcomes, and are indicated with (GT) next to the outcome.

All students must have a minimum GPA of 2.0 in general education courses to graduate (Fall 2011 admittance or later).

General Education Requirements (31 Credits Total)

Area I. Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T

OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II. Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III. Mathematics (3 credits)

MATH 104 - Finite Mathematics GT-MA1

3 Credit(s)

Topics covered include functions and their graphs, matrices, linear programming, probability, and descriptive statistics. Applications are presented from the areas of biology, business, behavioral sciences, economics, and the social sciences.

Prerequisite(s):

MATH 97 Minimum Grade: S-C or T
OR

MATH 99 Minimum Grade: S-C or T

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

ACT Math - Minimum Score: 19

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T
OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T

OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Area IV. Social and Behavioral Sciences/History (9 credits)

- at least one course must be a GT-SS*
- At least one course must be a GT-HI1 course
- the remaining course may come from either category
- Only one ECON course may be used towards the requirements in this General Education area

GT-SS* Courses

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-

depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

GT-HI1 Courses

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V. Physical and Natural Sciences (7 Credits)

One credit must be a lab:

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

CHEM 103 - Introduction to Forensic Chemistry GT-SC1

4 Credit(s)

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

CHEM 103L - Introduction to Forensic Chemistry Lab GT-SC1

0 Credit(s)

Required companion laboratory to CHEM 103.

Co-requisite(s): CHEM 103

CHEM 104 - Chemistry in Context GT-SC2

3 Credit(s)

This course is designed to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and in significant issues facing science, technology, and society.

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2

3 Credit(s)

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-

OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T

AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

Undergraduate Programs

Go to: Graduation Requirements for Undergraduates

Graduate Programs

Programs by Schools & Depts

Adams State University

School of Business

The mission of the School of Business is to deliver a contemporary, integrated business curriculum emphasizing teaching excellence in a student-centered environment.

The School of Business offers numerous Degree Programs. Minors are offered in consultation with the department chair in all the majors except economics, small business, pre-international business, business education, and advertising.

The School of Business has one national professional business fraternity, Phi Beta Lambda, and a national honor society in business, management and administration, Sigma Beta Delta. Other student clubs include: Agribusiness, Bulls and Bears (finance), Pacioli Club (in accounting) and an Adams State Toastmaster's Chapter. The accounting program is recognized by the Colorado State Board of Accountancy.

Business Degree Programs

Business Faculty

Director

- Dr. Liz Thomas-Hensley

Assistant Director

- Dr. Zena Buser

Professors

- Zena Buser, Ph.D., Professor of Agribusiness
- Liz Thomas Hensley, Ph.D., Professor of Business

Associate Professors

- Kyle Glenn, Ph.D., Associate Professor of Economics

Assistant Professors

- Brittany Harlan, M.T., Assistant Professor of Accounting
- Cecelia Ibarra-Cantu, Ph.D., Assistant Professor of Business (NTT)
- Natalie Rogers, M.B.A., Assistant Professor of Accounting (tenured)
- Alex Vernon, DBA, Assistant Professor of Strategic Management
- A.J. Webb, M.B.A., Assistant Professor of Health Care Administration (NTT)
- Mohamed Yusri Zaro, M.B.A., Assistant Professor of Finance (tenured)

Public Administration Faculty (graduate)

Coordinator

- Dr. Michael Mumper

Unless specified otherwise, the rank of associate professor implies tenured status. "NTT" indicates "non-tenure track."

Business

In the School of Business, Students will acquire competency to apply sound business practices and to understand the evolving business and economic environment under which business decisions must be made. Graduates are prepared for a variety of jobs in accounting, finance, management, marketing, research in public and private sectors, small business, and teaching.

Faculty in the School of Business

Course List

All Courses Offered by the School of Business

Associate of Science, General Business Emphasis

Go to: Business

As Part of the Graduation Requirements for Undergraduates, Complete:

General Education Requirements (31 Credits Total)

Area I. Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18
OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T
OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II. Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and

readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T
AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III. Mathematics (3 credits)

MATH 104 - Finite Mathematics GT-MA1

3 Credit(s)

Topics covered include functions and their graphs, matrices, linear programming, probability, and descriptive statistics. Applications are presented from the areas of biology, business, behavioral sciences, economics, and the social sciences.

Prerequisite(s):

MATH 97 Minimum Grade: S-C or T

OR

MATH 99 Minimum Grade: S-C or T

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

ACT Math - Minimum Score: 19

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T
OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T
OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T
OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Area IV. Social and Behavioral Sciences/History (9 credits)

- at least one course must be a GT-SS*
- At least one course must be a GT-H11 course
- the remaining course may come from either category
- Only one ECON course may be used towards the requirements in this General Education area

GT-SS* Courses

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

GT-HI1 Courses

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V. Physical and Natural Sciences (7 Credits)

One credit must be a lab:

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- OR BIOL-209 Minimum Grade: T OR BIOL-209 Minimum Grade: C- AND (CHEM-131 Minimum Grade: C- OR CHEM-131 Minimum Grade: T) OR (CHEM-111 Minimum Grade: C- OR CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

CHEM 103 - Introduction to Forensic Chemistry GT-SC1**4 Credit(s)**

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

CHEM 103L - Introduction to Forensic Chemistry Lab GT-SC1**0 Credit(s)**

Required companion laboratory to CHEM 103.

Co-requisite(s): CHEM 103

CHEM 104 - Chemistry in Context GT-SC2**3 Credit(s)**

This course is designed to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and in significant issues facing science, technology, and society.

CHEM 111 - Introductory Chemistry GT-SC1**4 Credit(s)**

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T
OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2

3 Credit(s)

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity,

quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

Completion of the Following

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

- BUS or ECON electives (100- or 200-level): **3 Credit(s)**
- Electives: **4 Credit(s)**

Total completion of a minimum of 60 credits for this degree

Bachelor of Arts in Business Administration, Advertising Emphasis

Go to: Business

In addition to the Graduation Requirements for Undergraduates:

Advertising Emphasis

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

Plus 4 Courses of the Following

AR 301 - Typography

3 Credit(s)

This course is intended primarily for art majors who chose graphic design as their area of emphasis. It is also open to any other art major or non-art major. This course will focus on a broad study of typography, its terminology, history, and application in the field of graphic design.

Prerequisite(s):

AR 206 Minimum Grade: C- OR T

AR 306 - Illustrator

3 Credit(s)

This course is an advanced design class. Using Adobe Illustrator, students will study design concepts related to computer graphics, illustration, and typography as well as historical traditions in graphic design.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

AR 310 - Photoshop**3 Credit(s)**

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

AR 312 - Design for the Internet**3 Credit(s)**

This course will provide an introduction to theories and practical experience with graphic design as applied to the Internet. Students will study the basics in web page and web site design using current industry standard software, HTML and XHTML. Within the course, students will create web pages and sites suitable for course work, professional purposes, and personal use. Students will also explore common web page formats and functions. Emphasis will be on the aesthetics of Internet design.

AR 381 - Intermediate Digital Photography**3 Credit(s)**

Continued exploration of digital photography as an art medium. The course will delve further into photographic applications in Adobe Photoshop with emphasis on maximizing image quality using masks and blending modes. Introduction to fine art printing and papers. Emphasis on concept and creative expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 281 Minimum Grade: C- OR T

AR 401 - Advanced Graphic Design**3 Credit(s)**

An advanced study of the design relating to the work of the graphic designer. Students learn PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 306 Minimum Grade: C- OR T

AND

AR 310 Minimum Grade: C- OR T

Complete these Required Courses

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 335 - Consumer Behavior

3 Credit(s)

Study of consumer behavior as it relates to the marketing functions. Emphasis on the models of consumer behavior and their application to practical marketing problems.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 345 - Advertising

3 Credit(s)

Discusses the history, purposes, and regulations of the advertising industry. Topics covered include creative principles, media advantages and disadvantages, media planning, regulation of advertising, and coordination with other promotion activities.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 448 - Interactive/Social Media Marketing

3 Credit(s)

This course focuses on relationship marketing, interactive marketing, integration of consumer data, Internet marketing (E-commerce), media advertising, catalogs, mailing lists, telemarketing, and the use of direct marketing techniques to replace or enhance the traditional marketing methods of retail and direct sales.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 454 - Market Research & Information

3 Credit(s)

Study of the theory and methods used in marketing research to address marketing problems. May include the completion of a research project where students learn by performing a research project from problem formulation to writing a research report. Also prepares the students for evaluating research performed by others.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T
AND

BUS 318 Minimum Grade: C- OR T

BUS 460 - Marketing Management

3 Credit(s)

Twelve hours of marketing courses and senior status required. Capstone course in marketing. Study of the problems faced by marketing managers as they make decisions and develop policies.

Prerequisite(s):

BUS 454 Minimum Grade: C- OR T

BUS 466 - Business Ethics Decision Making

3 Credit(s)

This course explores various ethical issues facing business leaders in modern society. Students will utilize current issues to analyze ethical dilemmas and decision-making processes common to modern organizations. Emphasizes critical thinking, critical reading, and the importance of professional ethics.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

Plus 9 credits from speech and/or journalism

Plus 6 credits from business

Bachelor of Arts in Business Administration, Business Teacher Education Emphasis with Secondary Teacher Licensure

Go to: Bachelor of Arts, Secondary Education Licensure

Go to: Business

Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 320 - Bus Computer Applications II

3 Credit(s)

The focus of this course is to explore application software on a comprehensive level to gain expertise to support decision-making and manage information. Study includes intermediate Word and Excel applications; intermediate to advanced PowerPoint; intermediate Access, integration of Office applications, and an introduction to HTML and building web pages.

Prerequisite(s):

BUS 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T
AND

BUS 304 Minimum Grade: C- OR T
AND

BUS 361 Minimum Grade: C- OR T
AND

BUS 363 Minimum Grade: C- OR T
AND

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

BUS 513 - Methods of Teaching Business Education

3 Credit(s)

Topics include high school business curriculum, high school business student organizations, distributive education, cooperative office education, vocation certification, business textbook catalogs, equipment and classroom techniques using learning styles and multimedia methods.

Plus completion of 1 of the following areas of specialization

Accounting

BUS 305 - Intermediate Accounting I

4 Credit(s)

The first of a two-course sequence of Intermediate Accounting designed to develop a framework for the role financial accounting plays in the world of business. A study of the conceptual basis of accounting will be conducted, creating a more in-depth understanding of the preparation and interpretation of financial statements and related information. This course will focus on the study of modern-day accounting theory and application of generally accepted accounting principles to various topics and financial statement elements. Students will be introduced to the U.S. Accounting Standards Codification and basic research tools.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

OR

BUS 307 - Managerial Cost Accounting I

3 Credit(s)

Principles and methods of recording and interpreting cost data. Major emphasis on developing accounting information for planning, control, and decision making.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

Marketing - 6 Credits from the following

BUS 315 - Sales and Sales Management

3 Credit(s)

This course is designed to introduce students to management techniques as they relate specifically to the marketing and sales area. Topics covered include: the selling process, compensation systems, motivation and leadership, time and territory management, sales forecasting, quotas, and evaluating the sales force.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 335 - Consumer Behavior

3 Credit(s)

Study of consumer behavior as it relates to the marketing functions. Emphasis on the models of consumer behavior and their application to practical marketing problems.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 345 - Advertising

3 Credit(s)

Discusses the history, purposes, and regulations of the advertising industry. Topics covered include creative principles, media advantages and disadvantages, media planning, regulation of advertising, and coordination with other promotion activities.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 385 - Sports Marketing

3 Credit(s)

Illustrates the dynamic, progressive and influential nature of sports marketing. Explores the sport marketing concept as a consumer-driven, integrated, goal-oriented philosophy for a team, event, organization or athlete. Topics covered include: athletic endorsements, team sports, event sponsorships and alternative sports.

BUS 448 - Interactive/Social Media Marketing

3 Credit(s)

This course focuses on relationship marketing, interactive marketing, integration of consumer data, Internet marketing (E-commerce), media advertising, catalogs, mailing lists, telemarketing, and the use of direct marketing techniques to replace or enhance the traditional marketing methods of retail and direct sales.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 449 - Marketing in the 21st Century

3 Credit(s)

This course provides the practical tools and strategies required to successfully leverage social networks, capitalize on their powerful word-of-mouth lift, and how to measure these interactive marketing efforts. These tools will be used on an actual social media marketing campaign for a business or non-profit entity. Current and future marketing tools will be discussed and evaluated.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

AND

BUS 448 Minimum Grade: C- OR T

Plus Additional Secondary Education Licensure Requirements from the School of Education

Bachelor of Arts, Secondary Education Licensure

Bachelor of Arts in Business Administration, Digital Marketing Emphasis

Go to: Business

Specific courses required for this degree:

Digital Marketing Courses

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

AR 310 - Photoshop

3 Credit(s)

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

AR 401 - Advanced Graphic Design

3 Credit(s)

An advanced study of the design relating to the work of the graphic designer. Students learn PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 306 Minimum Grade: C- OR T
AND

AR 310 Minimum Grade: C- OR T

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 315 - Sales and Sales Management

3 Credit(s)

This course is designed to introduce students to management techniques as they relate specifically to the marketing and sales area. Topics covered include: the selling process, compensation systems, motivation and leadership, time and territory management, sales forecasting, quotas, and evaluating the sales force.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 335 - Consumer Behavior

3 Credit(s)

Study of consumer behavior as it relates to the marketing functions. Emphasis on the models of consumer behavior and their application to practical marketing problems.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 345 - Advertising

3 Credit(s)

Discusses the history, purposes, and regulations of the advertising industry. Topics covered include creative principles, media advantages and disadvantages, media planning, regulation of advertising, and coordination with other promotion activities.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 448 - Interactive/Social Media Marketing

3 Credit(s)

This course focuses on relationship marketing, interactive marketing, integration of consumer data, Internet marketing (E-commerce), media advertising, catalogs, mailing lists, telemarketing, and the use of direct marketing techniques to replace or enhance the traditional marketing methods of retail and direct sales.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 454 - Market Research & Information

3 Credit(s)

Study of the theory and methods used in marketing research to address marketing problems. May include the completion of a research project where students learn by performing a research project from problem formulation to writing a research report. Also prepares the students for evaluating research performed by others.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T
AND

BUS 318 Minimum Grade: C- OR T

BUS 460 - Marketing Management

3 Credit(s)

Twelve hours of marketing courses and senior status required. Capstone course in marketing. Study of the problems faced by marketing managers as they make decisions and develop policies.

Prerequisite(s):

BUS 454 Minimum Grade: C- OR T

BUS 467 - Creativity and Innovation

3 Credit(s)

Course objectives are to develop skills in generating new and original ideas, increase ability to convert ideas into action and success, and increase knowledge and skill in creative problem solving as applied to business scenarios.

Prerequisite(s):

BUS 361 Minimum Grade: C-

COMM 230 - Media Writing

3 Credit(s)

Students will survey the fundamental types of media writing, including inverted pyramid news writing, feature writing, blogging, and screenplays. News literacy will also be covered.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

COMM 280 - Visual Literacy

3 Credit(s)

This course will decode the messages behind visual communication by covering concepts of photography, television, film, digital imagery, social media, video games, etc. Students will interrogate visual meaning, and even create visual messages using standard industry practices.

Prerequisite(s):

ENG 102 Minimum Grade: C-

COMM 285 - Digital Media Production

3 Credit(s)

Teaches skills needed to produce effective digital media in print, audio, and video formats. Students are encouraged to take this course concurrently with newspaper, radio, and/or video practicum.

COMM 293 - Media Practicum

3 Credit(s)

Students will work hands-on to learn various media industry-related skills. Students will deejay for Grizz Sound, and/or create podcasts, write for The Paw Print, and create a short video piece.

Prerequisite(s):

COMM 230 Minimum Grade: C- OR T

Plus 9 Hours from the Following

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 301 - Typography

3 Credit(s)

This course is intended primarily for art majors who chose graphic design as their area of emphasis. It is also open to any other art major or non-art major. This course will focus on a broad study of typography, its terminology, history, and application in the field of graphic design.

Prerequisite(s):

AR 206 Minimum Grade: C- OR T

AR 312 - Design for the Internet

3 Credit(s)

This course will provide an introduction to theories and practical experience with graphic design as applied to the Internet. Students will study the basics in web page and web site design using current industry standard software, HTML and XHTML. Within the course, students will create web pages and sites suitable for course work, professional purposes, and personal use. Students will also explore common web page formats and functions. Emphasis will be on the aesthetics of Internet design.

AR 381 - Intermediate Digital Photography

3 Credit(s)

Continued exploration of digital photography as an art medium. The course will delve further into photographic

applications in Adobe Photoshop with emphasis on maximizing image quality using masks and blending modes. Introduction to fine art printing and papers. Emphasis on concept and creative expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 281 Minimum Grade: C- OR T

AR 484 - Advanced Photography I

3 Credit(s)

Continued exploration of photography as an art medium with emphasis on expression and technique. Emphasis on development of a personal style and approach to the medium. Students will work with the instructor to determine techniques appropriate for their individual goals. Digital Techniques will be emphasized during the spring semester and traditional techniques in the fall semester. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 380 Minimum Grade: C- OR T
OR

AR 381 Minimum Grade: C- OR T

OR

AR 485 - Advanced Photography II

3 Credit(s)

Continued exploration of photography as an art medium with emphasis on expression and technique. Emphasis on development of a personal style and approach to the medium. Students will work with the instructor to determine techniques appropriate for their individual goals. Digital Techniques will be emphasized during the spring semester and traditional techniques in the fall semester. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 484 Minimum Grade: C- OR T

BUS 381 - Business Internship

1 to 3 Credit(s)

Junior standing and approval of the department chair required. The internships are planned, meaningful work experiences that are academic in nature. Supervision consists of a site supervisor who is a qualified professional in the business or organization where the internship is arranged and a faculty sponsor who is a full-time professor in the School of Business, usually from the student's major. The site supervisor evaluates the work performed by the student on the job. The faculty sponsor is responsible for maintenance of academic quality and assigns the course grade. (30 contact hours=1 credit hour)

OR

BUS 481 - Business Internship II

1 to 3 Credit(s)

Senior standing and approval of the Department Chair required. The internships are planned, meaningful work experiences that are academic in nature. Supervision consists of a site supervisor who is a qualified professional in the business or organization where the internship is arranged and a faculty sponsor who is a full-time professor in the School of Business, usually from the student's major. The site supervisor evaluates the work performed by the student on the job. The faculty sponsor is responsible for maintenance of academic quality and assigns the course grade (30 contact hours=1 credit hour).

BUS 466 - Business Ethics Decision Making

3 Credit(s)

This course explores various ethical issues facing business leaders in modern society. Students will utilize current issues to analyze ethical dilemmas and decision-making processes common to modern organizations. Emphasizes critical thinking, critical reading, and the importance of professional ethics.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

COMM 345 - Business of Radio and TV

3 Credit(s)

This course is designed for majors of Communication & Media, Media Industry & Communication, Public Relations, and other majors who are interested in careers in the radio and television industries. Students will study in-depth as to how the radio and television industries operate.

COMM 355 - Public Relations and Strategic Communication

3 Credit(s)

Students will study the theoretical and practical elements of the field of public relations and the use of strategic communication. Student will then compose public relations materials applying the elements studied.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

COMM 365 - Digital Filmmaking

3 Credit(s)

This course covers the aesthetics and practice of narrative, documentary, and experimental media production using a variety of digital filmmaking tools including digital photography, digital video, audio recorders, and editing software. Students will complete video products they can post to YouTube and similar sites.

Prerequisite(s):

COMM 230 Minimum Grade: C- OR T

Total: 66 Credit Hours

Bachelor of Arts in Business Administration, General Business Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T
AND

BUS 304 Minimum Grade: C- OR T
AND

BUS 361 Minimum Grade: C- OR T
AND

BUS 363 Minimum Grade: C- OR T
AND

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

Bachelor of Arts in Business Administration, International Business Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
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MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

International Business Emphasis

BUS 335 - Consumer Behavior

3 Credit(s)

Study of consumer behavior as it relates to the marketing functions. Emphasis on the models of consumer behavior and their application to practical marketing problems.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 373 - Investment Analysis

3 Credit(s)

BUS 318 recommended. The course is a study of personal investment planning, traditional and alternative investment vehicles, investment media, investment strategy, and portfolio analysis. The student will become familiar with both money market and capital investment markets as well as strategies for assessing returns and risks of various security instruments.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

BUS 383 - International Financial Management

3 Credit(s)

A comprehensive study of international financial markets that covers currency exchange mechanisms in theory and practice. In line with the rapid globalization of the economy, the goal of this course is to analyze the international financial environment and how managers function in this increasingly uncertain global environment. The course will focus on three main areas of international finance: international financial environment, exchange rate behavior, and exchange risk management.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 441 - International Marketing

3 Credit(s)

Analysis of opportunities, distinctive characteristics, and emerging trends in foreign markets, including exploration of alternative methods and strategies for entering foreign markets; organizational planning and control; impact of social,

cultural, economic, and political differences; and problems of adapting American marketing concepts and methods. This is accomplished through real life planning and implementation of an international marketing plan designed to market a product or service in a foreign country or countries

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 498 - World Food Distribution/Agricultural Economics

3 Credit(s)

Knowledge and application of economic concepts to the sectors of agriculture including microeconomic and macroeconomic relationships, world markets, and trade.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Plus 9 Credits from Political Science, History, or Languages (in Consultation with Your Advisor)

Bachelor of Arts in Business Administration, Public Relations Emphasis

Go to: Business

Public Relations Courses

SPCH 100 - Speech Fundamentals

3 Credit(s)

A course designed to develop proficiency in oral communication: interpersonal, group, and public discourse.

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both

defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

COMM 230 - Media Writing

3 Credit(s)

Students will survey the fundamental types of media writing, including inverted pyramid news writing, feature writing, blogging, and screenplays. News literacy will also be covered.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

COMM 293 - Media Practicum

3 Credit(s)

Students will work hands-on to learn various media industry-related skills. Students will deejay for Grizz Sound, and/or create podcasts, write for The Paw Print, and create a short video piece.

Prerequisite(s):

COMM 230 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 315 - Sales and Sales Management

3 Credit(s)

This course is designed to introduce students to management techniques as they relate specifically to the marketing and sales area. Topics covered include: the selling process, compensation systems, motivation and leadership, time and territory management, sales forecasting, quotas, and evaluating the sales force.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 345 - Advertising

3 Credit(s)

Discusses the history, purposes, and regulations of the advertising industry. Topics covered include creative principles,

media advantages and disadvantages, media planning, regulation of advertising, and coordination with other promotion activities.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

COMM 355 - Public Relations and Strategic Communication

3 Credit(s)

Students will study the theoretical and practical elements of the field of public relations and the use of strategic communication. Student will then compose public relations materials applying the elements studied.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

COMM 425 - Media Research Methods

3 Credit(s)

Students will examine the prominent methods of media research, including quantitative and qualitative research, reliability and validity, specific methods used in the industry, the Nielsen ratings, and market trends.

Prerequisite(s):

ENG 102 Minimum Grade: C-

BUS 448 - Interactive/Social Media Marketing

3 Credit(s)

This course focuses on relationship marketing, interactive marketing, integration of consumer data, Internet marketing (E-commerce), media advertising, catalogs, mailing lists, telemarketing, and the use of direct marketing techniques to replace or enhance the traditional marketing methods of retail and direct sales.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 466 - Business Ethics Decision Making

3 Credit(s)

This course explores various ethical issues facing business leaders in modern society. Students will utilize current issues to analyze ethical dilemmas and decision-making processes common to modern organizations. Emphasizes

critical thinking, critical reading, and the importance of professional ethics.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 467 - Creativity and Innovation

3 Credit(s)

Course objectives are to develop skills in generating new and original ideas, increase ability to convert ideas into action and success, and increase knowledge and skill in creative problem solving as applied to business scenarios.

Prerequisite(s):

BUS 361 Minimum Grade: C-

COMM 495 - Communication Capstone

3 Credit(s)

This course is designed to be the academic capstone experience for all students who are majoring in Communication & Media or Public Relations and to prepare students for a career in the media industry and/or for graduate studies in the field. Subject matter will vary depending upon the instructor's specialization or area of interest. All capstone students will conduct a major research project that reflects the student's mastery of library usage, research methodology, breadth of knowledge, critical thinking, and writing ability.

COMM 345 - Business of Radio and TV

3 Credit(s)

This course is designed for majors of Communication & Media, Media Industry & Communication, Public Relations, and other majors who are interested in careers in the radio and television industries. Students will study in-depth as to how the radio and television industries operate.

Plus 3 Credits from Business or Communication

COMM 280 - Visual Literacy

3 Credit(s)

This course will decode the messages behind visual communication by covering concepts of photography, television, film, digital imagery, social media, video games, etc. Students will interrogate visual meaning, and even create visual messages using standard industry practices.

Prerequisite(s):

ENG 102 Minimum Grade: C-

COMM 293 - Media Practicum

3 Credit(s)

Students will work hands-on to learn various media industry-related skills. Students will deejay for Grizz Sound, and/or

create podcasts, write for The Paw Print, and create a short video piece.

Prerequisite(s):

COMM 230 Minimum Grade: C- OR T

BUS 381 - Business Internship

1 to 3 Credit(s)

Junior standing and approval of the department chair required. The internships are planned, meaningful work experiences that are academic in nature. Supervision consists of a site supervisor who is a qualified professional in the business or organization where the internship is arranged and a faculty sponsor who is a full-time professor in the School of Business, usually from the student's major. The site supervisor evaluates the work performed by the student on the job. The faculty sponsor is responsible for maintenance of academic quality and assigns the course grade. (30 contact hours=1 credit hour)

OR

BUS 481 - Business Internship II

1 to 3 Credit(s)

Senior standing and approval of the Department Chair required. The internships are planned, meaningful work experiences that are academic in nature. Supervision consists of a site supervisor who is a qualified professional in the business or organization where the internship is arranged and a faculty sponsor who is a full-time professor in the School of Business, usually from the student's major. The site supervisor evaluates the work performed by the student on the job. The faculty sponsor is responsible for maintenance of academic quality and assigns the course grade (30 contact hours=1 credit hour).

COMM 430 - Diversity in Media

3 Credit(s)

Students will analyze how US media represents traditionally marginalized people in the United States. The course will be primarily discussion based, with students and instructor working together to generate ideas and critique dominant ideologies.

Prerequisite(s):

COMM 350 Minimum Grade: C- OR T

COMM 457 - First Amendment and Copyright

3 Credit(s)

This course explores the First Amendment of the U.S. Constitution and current U.S. copyright laws, and how they apply to and affect both media practitioners and U.S. citizens.

Prerequisite(s):

COMM 255 Minimum Grade: C- OR T

AND

COMM 275 Minimum Grade: C- OR T

COMM 496 - Communication Internship

1 to 3 Credit(s)

Advanced communication students will work in a pre-employment capacity in the field of communications/journalism (broadcasting, video, print, satellite, or computing), applying learned skills in a working environment.

Bachelor of Science / Masters of Business Administration - 5 Year Program

Go to: Business

The 5-year B.S./M.B.A. helps exceptional Adams State students get a head start in their career in business. The program provides a solid foundation for students to launch a successful career in business. The curriculum allows students several options so they can customize their degree to an emphasis in business most relevant to their career goals. Students must work closely with their advisor to determine appropriate courses for these emphases.

The B.S./M.B.A. provides a seamless transition from an undergraduate program to the graduate program, allowing students to cultivate and strengthen their business expertise and maintain the M.B.A. advantage that is sought after in today's highly competitive, global marketplace. The five-year B.S./M.B.A. program is designed for motivated students who are prepared for a streamlined, integrated academic experience that responds to the rapidly changing global environment of today's business world. The B.S./M.B.A. program is ideal for those who want to fast-track their careers while building sustainable skills with innovative and interactive curricula. Students are grounded in applications-based learning that engages new technologies, global perspectives, and ethics-based best practices.

Note: The B.S. portion of the B.S./M.B.A. program is offered either online or face to face. The M.B.A. portion of the program is ONLY offered online.

Admission Requirements for Combined Bachelor's/M.B.A. Degree Program

Undergraduates enrolled in a bachelor's degree program at Adams State University who have completed 75 credit hours of course work toward their degrees and have a cumulative GPA of 3.0 or above may apply for admission to a combined bachelor's/M.B.A. degree program. This program has been established to encourage students with strong scholarly interests to begin their M.B.A. program during their junior year and to provide flexibility in the scheduling and completion of undergraduate requirements along with their graduate course requirements for the M.B.A. degree. The graduate degree will be awarded only after, or concurrently with, the award of Baccalaureate. There are two categories that could qualify a student for acceptance:

1. The student may be enrolled in either a graduate or undergraduate degree program, taking both undergraduate and graduate courses, with two degrees being conferred only when the requirements for both are completed. This student must be monitored and eligibility for certain financial aid programs may be restricted. A "500-Level Course Evaluation" form must be completed and approved by the M.B.A. director and the School of Business chair prior to registration. A student must have completed 90 credit hours prior to starting 500-level courses.

2. The student is an undergraduate taking graduate course(s) as part of their undergraduate degree program. The courses are being used to complete the undergraduate degree. This student is treated for financial aid purposes as a normal undergraduate student and no special financial aid processing is required.

Until students accumulate 120 total credit hours bachelor/M.B.A., they will be classified as undergraduates for financial aid and College Opportunity Fund (COF) purposes (COF applies to courses numbered 100, 200, 300, and 400 only).

Core Courses for both the BS and MBA portions of the Degree

Note:

- Courses required for emphases are not included in the Core Course Requirements
- ASU undergraduate/M.B.A. students may count up to 30 credits from 300-400-500 level (no more than 18 credits from 500 level) Business, Economics or Health Care Administration Courses.

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of

business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

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3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
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MATH 106 Minimum Grade: C- OR T

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MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Master of Business Administration Core Requirements

BUS 500 - Leadership Skills for Managers

3 Credit(s)

This course teaches practical skills required for effective management at all levels of an organization, and is designed to increase a learner's understanding of key concepts and procedural guidelines related to organizational management, human resource, and leadership. The purpose is to be equipped to deal effectively with managerial challenges dealing with people.

BUS 505 - Creating Consumer Value

3 Credit(s)

This course presents learners with a comprehensive approach to creating consumer value. This includes marketing and

brand management in for-profit firms as well as identifying and meeting consumer needs in non-profit and governmental organizations. Topics include segmentation and targeting of consumers; the positioning levers of product, price, promotion, and distribution; and brand management.

ECON 505 - Managerial Economics

3 Credit(s)

This course demonstrates how economics theory is applied to national and international managerial decision-making. The course covers topics such as demand analysis, production and cost functions, market structure, managerial understanding of public policy, and international trade finance topics. Pre-req.-Undergraduate Economics course with a grade of C or higher.

BUS 520 - Managerial Accounting

3 Credit(s)

This course provides a review of financial reporting standards and statements and analysis of those financial statements. Managerial accounting principles will be explored as well as budgeting, cost allocation, accumulation, cost behavior, and relevant costs; revenues are approached from a managers' perspective. Prerequisite: undergraduate accounting course with a grade of C or higher.

BUS 525 - Financial Analysis

3 Credit(s)

Students will embark on studying basic financial principles and enhance that with understanding various valuation concepts and methods. Emphasis is also placed on capital budgeting and long term financing as well as working capital management. The course will blend time-tested finance principles and the latest advancements with the practical perspectives of the financial manager. Prerequisite: undergraduate accounting course with a grade of C or higher.

Prerequisite(s):

BUS 520 Minimum Grade: C

BUS 540 - Strategy

3 Credit(s)

In this course, learners examine tools and techniques for competitive analysis, strategic planning, and strategy implementation. Learners gain knowledge of the tools and concepts needed to develop a business strategy including macro environmental scanning, industry and competitive analysis, value chain analysis, SWOT analysis, identification of critical success factors and driving forces, and development of strategic alternatives and recommendations.

Bachelor of Science in Business Administration, Accounting Emphasis

Go to: [Business](#)

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

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Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

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3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

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3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

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OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Accounting Emphasis

BUS 305 - Intermediate Accounting I

4 Credit(s)

The first of a two-course sequence of Intermediate Accounting designed to develop a framework for the role financial accounting plays in the world of business. A study of the conceptual basis of accounting will be conducted, creating a more in-depth understanding of the preparation and interpretation of financial statements and related information. This course will focus on the study of modern-day accounting theory and application of generally accepted accounting principles to various topics and financial statement elements. Students will be introduced to the U.S. Accounting Standards Codification and basic research tools.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 306 - Intermediate Accounting II

4 Credit(s)

The second of a two-course sequence of Intermediate Accounting designed to develop a framework for the role financial accounting plays in the world of business. A study of the conceptual basis of accounting will be conducted, creating a more in-depth understanding of the preparation and interpretation of financial statements and related information. This course will focus on the study of modern-day accounting theory and application of generally accepted accounting principles to various topics and financial statement elements. Students will continue their use of the U.S. Accounting Standards Codification as a research tools.

Prerequisite(s):

BUS 305 Minimum Grade: C- OR T

BUS 307 - Managerial Cost Accounting I

3 Credit(s)

Principles and methods of recording and interpreting cost data. Major emphasis on developing accounting information for planning, control, and decision making.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 355 - Individual Income Taxation

4 Credit(s)

This course involves the study of federal income tax on individual and property transactions. Objectives of taxation are given major emphasis. The Internal Revenue Code is discussed in addition to textbook material in order to acquaint the student with the ultimate source of tax law. Income tax return problems and tax cases may be assigned to provide practical application of the tax law.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 360 - Government and Institution Accounting

3 Credit(s)

Study of accounting procedures related to governmental units and nonprofit institutions.

Prerequisite(s):

BUS 305 Minimum Grade: C- OR T

BUS 405 - Advanced Accounting

4 Credit(s)

BUS-405 involves preparation and study of the need for consolidated financial statements. Additionally, it examines accounting problems associated with partnerships and foreign currency transactions.

Prerequisite(s):

BUS 306 Minimum Grade: C- OR T

BUS 407 - Auditing I

3 Credit(s)

Study of ethical standards, auditing standards, audit procedures, and evolution of internal control to learn how financial statements are examined and audit reports prepared in accordance with Generally Accepted Auditing Standards.

Prerequisite(s):

BUS 305 Minimum Grade: C- OR T

AND

BUS 306 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 409 - Fraud Examination

3 Credit(s)

This class will explain how occupational fraud is committed, how fraudulent conduct can be deterred and how allegations of fraud should be investigated and resolved.

Prerequisite(s):

BUS 305 Minimum Grade: C- OR T

BUS 455 - Entity Taxation

4 Credit(s)

Business 455 concentrates on the federal income tax consequences of the formation, normal operation, and the dissolution of corporations, partnerships, and fiduciaries. Other taxation problems of special interest may be covered.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

Electives

BUS 308 - Managerial Cost Accounting II

3 Credit(s)

Principles and methods of recording and interpreting cost data. Major emphasis on developing accounting information for planning, control, and decision making.

Prerequisite(s):

BUS 307 Minimum Grade: C- OR T

BUS 358 - Accounting Ethics

3 Credit(s)

Ethics as it applies to the accounting and auditing professions and will be the focus of this course. Emphasis will be on the concept of independence, along with integrity, objectivity, ethical reasoning, and other core values necessary for a high level of professional ethics in the accounting profession.

Prerequisite(s):

BUS 306 Minimum Grade: C- OR T

BUS 371 - Payroll Accounting and Taxation

3 Credit(s)

This course is devoted to the principles of payroll computations and administration including creation and maintenance of payroll records as well as proper payroll tax depositing and reporting.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 377 - Agricultural Taxation

3 Credit(s)

This course is devoted to specific income tax laws associated with agricultural business to include farmers and ranchers both as individuals and as part of taxable entities.

Prerequisite(s):

BUS 355 Minimum Grade: C- OR T

BUS 465 - Estate, Gift, and Fiduciary Tax Law

3 Credit(s)

This course will address the fundamentals of Estate, Gift, and Fiduciary tax law. Topics will include Federal Gift Tax, death transfer tax laws, and fundamentals and reporting returns for estates.

Prerequisite(s):

BUS 455 Minimum Grade: C- OR T

Bachelor of Science in Business Administration, Agribusiness Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems,

location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Agribusiness Emphasis

BUS 105 - Introduction to Agribusiness

3 Credit(s)

An introductory course designed to provide students with a basic background in agribusiness issues and practices to give them the foundation to be successful in upper level agribusiness courses and meet expectations for basic knowledge in agribusiness relationships.

BUS 364 - Agribusiness Management

3 Credit(s)

Management issues of agricultural businesses such as the forms of ownership, financial statements, analysis, and planning, investment analysis, strategic marketing, management of organizations, and human resources management.

Prerequisite(s):

BUS 105 Minimum Grade: C- OR T
AND

BUS 207 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

BUS 378 - Commodities/Risk Management

3 Credit(s)

The goal of this course is to provide students with knowledge of risk management for agricultural endeavors as well as practical knowledge of how the futures and options markets work, how to manage risk involved in agriculture production or operation, and various tools available to manage specific situations. BUS 103 Introduction to Business or instructor consent. BUS 105 Introduction to Agribusiness or instructor consent. BUS 318 Principles of Management or instructor consent.

Prerequisite(s):

BUS 103 Minimum Grade: D OR T
AND

BUS 105 Minimum Grade: D OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 384 - Natural Resources/Water Law

3 Credit(s)

The goal of this course is to provide students with knowledge of the regulatory responsibilities related to agriculture production and operations with respect to natural resources and water. The course will cover federal, state, and local requirements as well as application to agribusiness endeavors.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 211 Minimum Grade: C- OR T

BUS 398 - Farm and Ranch Management

3 Credit(s)

The application of economic and business principles to the management and operation of farms and ranches for decision making purposes.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 207 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

BUS 478 - Agricultural Marketing

3 Credit(s)

An overview of current marketing methods used for agricultural products and services, including value added marketing.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 488 - Agricultural Policy and Farm Bill

3 Credit(s)

Development and implementation of public policy in agriculture, implications of international competition and trade, and development and interpretation of argument in policy development.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

BUS 498 - World Food Distribution/Agricultural Economics

3 Credit(s)

Knowledge and application of economic concepts to the sectors of agriculture including microeconomic and macroeconomic relationships, world markets, and trade.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Plus 12 Upper-level Business Credits as Approved by Advisor

Bachelor of Science in Business Administration, Economics Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Economics Emphasis

ECON 360 - Natural Resource Economics

3 Credit(s)

This course studies the usage of natural resources in the economy, the value of natural resources to society, and the allocation of renewable and nonrenewable resources. The course introduces economic theories for efficient management of natural resources and considers sustainability, conservation, and preservation. The course will consider resources, such as water, on a local scale as well as a global scale.

ECON 365 - Political Economy

3 Credit(s)

This course offers a critical introduction to the central ideas used by Political Economists to understand the structure, social meaning, and historical development of capitalist economies. Lectures draw on competing traditions in Political Economy to provide a critical appreciation of the defining socio-economic relationships of capitalism, including wages, productivity, profits, inequality, prices, entrepreneurship, markets, capitalism, growth, crises, recessions, socialism, etc. While these discussions necessarily involve economic theory, the overall emphasis is on how an analytically diverse understanding of these relationships can open up unique, critical perspectives into the problems of contemporary capitalism.

ECON 370 - Economics of Crises

3 Credit(s)

This course studies the nature of economic crises in capitalism. The course will explore theories of crises such as supply-side, demand-side, and financial crises. We will analyze the social consequences of crises as well as the policies implemented.

ECON 425 - Economic Policy

3 Credit(s)

Study of the structure and functions of the U.S. economic system and the use of monetary, fiscal, and other policies to stabilize the economy. Emphasis on historical roots and the evolution into new behavioral economic ideas as well as the complex interplay of policy and economic forces.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

ECON 433 - Managerial Economics

3 Credit(s)

Application and integration of microeconomic theory and the tools of decision science to managerial decision-making. Particular emphasis placed on the economic differences caused by monopolies, cartels, and multi-national organizations and their domination of many industries. Understanding of game theory and new economic analysis tools.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

HCA 455 - Health Care Economics

3 Credit(s)

This course will examine health care decision-making and the functioning of health care markets in the U.S. The course is not designed as a pure economics theory course but instead emphasizes how you can frame and analyze various health issues using the principles of economics. By doing so, you will gain a powerful new perspective that will help you understand the decisions made by individuals and organizations in the face of scarce resources. Instructor permission.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

BUS 498 - World Food Distribution/Agricultural Economics

3 Credit(s)

Knowledge and application of economic concepts to the sectors of agriculture including microeconomic and macroeconomic relationships, world markets, and trade.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

A Minimum of 12 Credits from the Following

BUS 307 - Managerial Cost Accounting I

3 Credit(s)

Principles and methods of recording and interpreting cost data. Major emphasis on developing accounting information for planning, control, and decision making.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 320 - Bus Computer Applications II

3 Credit(s)

The focus of this course is to explore application software on a comprehensive level to gain expertise to support decision-making and manage information. Study includes intermediate Word and Excel applications; intermediate to advanced PowerPoint; intermediate Access, integration of Office applications, and an introduction to HTML and building web pages.

Prerequisite(s):

BUS 120 Minimum Grade: C- OR T

BUS 355 - Individual Income Taxation

4 Credit(s)

This course involves the study of federal income tax on individual and property transactions. Objectives of taxation are given major emphasis. The Internal Revenue Code is discussed in addition to textbook material in order to acquaint the student with the ultimate source of tax law. Income tax return problems and tax cases may be assigned to provide practical application of the tax law.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 373 - Investment Analysis

3 Credit(s)

BUS 318 recommended. The course is a study of personal investment planning, traditional and alternative investment vehicles, investment media, investment strategy, and portfolio analysis. The student will become familiar with both money market and capital investment markets as well as strategies for assessing returns and risks of various security instruments.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T
AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

BUS 378 - Commodities/Risk Management

3 Credit(s)

The goal of this course is to provide students with knowledge of risk management for agricultural endeavors as well as practical knowledge of how the futures and options markets work, how to manage risk involved in agriculture production or operation, and various tools available to manage specific situations. BUS 103 Introduction to Business or instructor consent. BUS 105 Introduction to Agribusiness or instructor consent. BUS 318 Principles of Management or instructor consent.

Prerequisite(s):

BUS 103 Minimum Grade: D OR T
AND

BUS 105 Minimum Grade: D OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 383 - International Financial Management

3 Credit(s)

A comprehensive study of international financial markets that covers currency exchange mechanisms in theory and practice. In line with the rapid globalization of the economy, the goal of this course is to analyze the international financial environment and how managers function in this increasingly uncertain global environment. The course will focus on three main areas of international finance: international financial environment, exchange rate behavior, and exchange risk management.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 414 - Commercial Banking

3 Credit(s)

Bank Management is an in-depth study of banking institutions, with special emphasis on commercial banks and their

connection to the Federal Reserve System and other financial institutions. A risk management perspective is adopted, and the fast changing global regulatory and financial environments are discussed. A Uniform Bank Performance Report will be analyzed.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 416 - Business Financial Problems

3 Credit(s)

Emphasis on financial decision-making within the firm using case studies as the primary activity. Topics include financial goals and strategy, financial analysis and forecasting, capital budgeting, capital structure decisions, dividend policy, and firm valuation.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 466 - Business Ethics Decision Making

3 Credit(s)

This course explores various ethical issues facing business leaders in modern society. Students will utilize current issues to analyze ethical dilemmas and decision-making processes common to modern organizations. Emphasizes critical thinking, critical reading, and the importance of professional ethics.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

Bachelor of Science in Business Administration, Entrepreneurship Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The

course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal

and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial

theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Entrepreneurship Emphasis

BUS 315 - Sales and Sales Management

3 Credit(s)

This course is designed to introduce students to management techniques as they relate specifically to the marketing and sales area. Topics covered include: the selling process, compensation systems, motivation and leadership, time and territory management, sales forecasting, quotas, and evaluating the sales force.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 362 - Human Resource Management

3 Credit(s)

Analysis of techniques used to organize, motivate, and manage personnel in public or private organizations. Includes case studies and examines current literature and the current legal environment..

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

BUS 448 - Interactive/Social Media Marketing

3 Credit(s)

This course focuses on relationship marketing, interactive marketing, integration of consumer data, Internet marketing (E-commerce), media advertising, catalogs, mailing lists, telemarketing, and the use of direct marketing techniques to replace or enhance the traditional marketing methods of retail and direct sales.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 466 - Business Ethics Decision Making

3 Credit(s)

This course explores various ethical issues facing business leaders in modern society. Students will utilize current issues to analyze ethical dilemmas and decision-making processes common to modern organizations. Emphasizes critical thinking, critical reading, and the importance of professional ethics.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 467 - Creativity and Innovation

3 Credit(s)

Course objectives are to develop skills in generating new and original ideas, increase ability to convert ideas into action and success, and increase knowledge and skill in creative problem solving as applied to business scenarios.

Prerequisite(s):

BUS 361 Minimum Grade: C-

BUS 468 - New Business Venturing

3 Credit(s)

This course introduces students to starting and operating a business. Students will be exposed to how business interacts with government, financial institutions, and society. This course will examine and study the process, challenges, risks, and rewards of starting up a new business. The student will be equipped with tools required to start their own business.

Prerequisite(s):

BUS 365 Minimum Grade: C-

Plus 6 Credits of 300- to 400-level business or economics courses approved by the student's advisor

Bachelor of Science in Business Administration, Banking and Finance Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Finance Emphasis (21 credits from the following)

BUS 367 - Financial Analysis

3 Credit(s)

Examination of techniques for analyzing, understanding, and applying financial information in decision situations. Topics start with financial statement analysis, development of financial models, financial forecasting, cost of capital estimation, and ends with company valuation. In addition, there will be a "hands on" project to provide students with experience in analyzing and understanding a corporate annual report using EXCEL spread sheet analysis.

Prerequisite(s):

BUS 320 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

BUS 368 - Financial Institutions

3 Credit(s)

The course focuses on managing return and risk in modern financial institutions. It examines the financial services industry risk of financial intermediation, measurement of interest rate risk, credit and market risk, individual loan and liquidity risks, as well as off-balance sheet and sovereign risks. The course covers management of assets and liabilities, capital adequacy and depository insurance. Futures, forwards, options, caps, floors, collars, swaps and securitization will be also covered.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 373 - Investment Analysis

3 Credit(s)

BUS 318 recommended. The course is a study of personal investment planning, traditional and alternative investment vehicles, investment media, investment strategy, and portfolio analysis. The student will become familiar with both money market and capital investment markets as well as strategies for assessing returns and risks of various security instruments.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

BUS 383 - International Financial Management

3 Credit(s)

A comprehensive study of international financial markets that covers currency exchange mechanisms in theory and practice. In line with the rapid globalization of the economy, the goal of this course is to analyze the international financial environment and how managers function in this increasingly uncertain global environment. The course will focus on three main areas of international finance: international financial environment, exchange rate behavior, and exchange risk management.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 414 - Commercial Banking

3 Credit(s)

Bank Management is an in-depth study of banking institutions, with special emphasis on commercial banks and their connection to the Federal Reserve System and other financial institutions. A risk management perspective is adopted, and the fast changing global regulatory and financial environments are discussed. A Uniform Bank Performance Report will be analyzed.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 416 - Business Financial Problems

3 Credit(s)

Emphasis on financial decision-making within the firm using case studies as the primary activity. Topics include financial goals and strategy, financial analysis and forecasting, capital budgeting, capital structure decisions, dividend policy, and firm valuation.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 426 - Money and Capital Markets

3 Credit(s)

Discussion of how financial markets are organized, their role in the allocation of funds to various market segments, and the interaction between financial markets. Topics include aggregate flow of funds analysis, an overview of financial markets, securities markets (money, bond, mortgage, stock, foreign exchange, derivative securities), as well as commercial banks, insurance and securities companies, mutual and pension funds markets. This course also covers

financial markets risks and regulations.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 431 - Tech Analysis of Stock Trends

3 Credit(s)

Advanced studies in technical market analysis and trading, money management, investor psychology and analysis elements are considered. The Focus will be on the study of price action in trading markets, patterns and trends, price behavior of financial securities, trading tactics, and construction of a trading or investment model. The course will help students prepare for the Chartered Market Technician (CMT) designation.

Prerequisite(s):

BUS 373 Minimum Grade: C- OR T

BUS 432 - Series 7 General Securities Exam Review

3 Credit(s)

The Series 7 License Exam Review course is designed to prepare the student to take the National Association of Securities Dealers General Securities Representative Exam. After passing the Series 7 License exam the candidate can be licensed to sell various types of securities.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

AND

BUS 373 Minimum Grade: C- OR T

Plus 6 Credits of any Business or Economics Courses

Bachelor of Science in Business Administration, General Business Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Plus 30 credits from 300- to 400-level business, economics, or health care administration courses

Bachelor of Science in Business Administration, Health Care Administration Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

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3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

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3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Health Care Administration Emphasis

HCA 303 - Trends and Issues in Health Care

3 Credit(s)

This course is an introductory Health Care Administration course and will expose the student to the industry and its significant elements and trends of the current health care environment.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

HCA 305 - Health Care Marketing

3 Credit(s)

This course involves an analysis, evaluation, and implementation of marketing strategies within health care and managed-care environments. Designed to develop skills in segmenting customer and medical markets, brand products and services, enhance a communication strategy to the consumer, and develop pricing approaches. Methods and models of marketing fundamentals will be introduced.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

HCA 311 - Health Care Law and Ethics

3 Credit(s)

This course presents an overview of the legal and ethical issues faced by health care consumers, practitioners, and administrators. The course will introduce students to the legal aspects of health care at the federal, state, and local levels. Topics covered will include criminal and civil claims against health care providers, corporate and individual liability, and legal and ethical decision-making, individual liability, and legal and ethical decision-making. HCA 361 Health Care Administration. Instructor permission.

Prerequisite(s):

BUS 211 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

HCA 312 - Health Care Med Terminology

3 Credit(s)

This course will focus on the components of medical terms and the methods for analysis of word definitions. The emphasis will be on learning to define, pronounce, and spell medical terms using prefixes, suffixes, roots, and combining forms related to the anatomy and physiology of the human body. The course will include an introduction to operative, diagnostic, therapeutic, and symptomatic terminology of all body systems.

HCA 325 - Health Care Informatics

3 Credit(s)

This course is a study of record keeping practices in the hospital and physician's office. Emphasis is placed in hospital and medical staff organization, patient record content, procedures in filing, numbering and retention of patient records, quantitative analysis, release of patient information, forms control and design, indexes and registers, reimbursement, regulatory and accrediting agencies, and alternate health care delivery systems. Instructor permission required.

Prerequisite(s):

BUS 120 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

BUS 362 - Human Resource Management

3 Credit(s)

Analysis of techniques used to organize, motivate, and manage personnel in public or private organizations. Includes case studies and examines current literature and the current legal environment..

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

HCA 363 - Health Care Finance**3 Credit(s)**

This course is devoted to the practical aspects of finance in health care, an examination of current practices in financial management of health care organizations, and managerial applications to specific problems facing health care managers. The first part of the course will focus on an overview of health care finance, managerial accounting, and financial analysis. The second part will continue with managerial accounting and financial analysis and will concentrate on the various tools used in financial management. Emphasis is placed on unique issues and concerns that result from the regulatory framework of health care organizations. At the conclusion of this course, the student should be able to discuss the financial structure, market forces, controls and techniques used in the health care management field, be able to read and analyze financial statements and budgets and have the skill to interpret financial and operating performance.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 402 - Public and Population Health**3 Credit(s)**

This course consists of an examination of epidemiological concepts and methods of studying the distribution and determinants of morbidity and mortality in human population. The knowledge and skills acquired should enable one to understand and critically review scientific literature dealing with epidemiology concepts and measures. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 455 - Health Care Economics**3 Credit(s)**

This course will examine health care decision-making and the functioning of health care markets in the U.S. The course is not designed as a pure economics theory course but instead emphasizes how you can frame and analyze various health issues using the principles of economics. By doing so, you will gain a powerful new perspective that will help you understand the decisions made by individuals and organizations in the face of scarce resources. Instructor permission.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 462 - Quality Management in Health Care

3 Credit(s)

Quality is an important aspect of health care; indeed, for most people, it is the most important aspect. Quality is defined in the dictionary as "degree of excellence" or "superiority in kind." Quality of care must be part of both the process and outcome of health care whenever possible. The issue is how does the system develop mechanisms to assure such quality? This course serves as an introduction to the process of quality management in health care organizations. Principles of total quality in health care will be discussed. Differentiation between quality assurance and quality management will also be presented. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 480 - Health Care Policy

3 Credit(s)

This course is an introduction to health policy. It will focus on how U.S. health policy is developed and will provide students with a general understanding of the policy making process and debates related major U.S. health care legislations.

Prerequisite(s):

HCA 303 Minimum Grade: C- OR T

AND

HCA 305 Minimum Grade: C- OR T

AND

HCA 363 Minimum Grade: C- OR T

Bachelor of Science in Business Administration, Management Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both

defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

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3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

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3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

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3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

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3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

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BUS 207 Minimum Grade: C- OR T
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BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Management Emphasis

BUS 362 - Human Resource Management

3 Credit(s)

Analysis of techniques used to organize, motivate, and manage personnel in public or private organizations. Includes case studies and examines current literature and the current legal environment..

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

BUS 401 - Organizational Behavior

3 Credit(s)

Participants in the course will explore the theory of human relations in organizations. The emphasis will be on the application of behavioral science knowledge to contemporary organizational issues, which may include individual and group dynamics, motivation, leadership, organizational change, and development.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 418 - Leadership Strategies

3 Credit(s)

This course presents contemporary theories and approaches to leadership practices in modern organizations. Students learn how effective leadership can assist in the creation of a strong organizational culture and the implications external forces have on individual leadership development and continued growth.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 419 - Organizational Change/Develop

3 Credit(s)

The study of planned and unplanned change in organizations to include diagnosis, planning, and implementation of organizational change initiatives. Emphasis is on teamwork within organizations and survey development.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 466 - Business Ethics Decision Making

3 Credit(s)

This course explores various ethical issues facing business leaders in modern society. Students will utilize current issues to analyze ethical dilemmas and decision-making processes common to modern organizations. Emphasizes critical thinking, critical reading, and the importance of professional ethics.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

Plus 3 Credits from the following

ECON 425 - Economic Policy

3 Credit(s)

Study of the structure and functions of the U.S. economic system and the use of monetary, fiscal, and other policies to stabilize the economy. Emphasis on historical roots and the evolution into new behavioral economic ideas as well as the complex interplay of policy and economic forces.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

ECON 433 - Managerial Economics

3 Credit(s)

Application and integration of microeconomic theory and the tools of decision science to managerial decision-making. Particular emphasis placed on the economic differences caused by monopolies, cartels, and multi-national organizations and their domination of many industries. Understanding of game theory and new economic analysis tools.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

Plus 6 Credits of of 300 to 400 level business or economics courses approved by the student's advisor

Bachelor of Science in Business Administration, Marketing Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to

support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills

for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Marketing Emphasis

BUS 315 - Sales and Sales Management

3 Credit(s)

This course is designed to introduce students to management techniques as they relate specifically to the marketing and sales area. Topics covered include: the selling process, compensation systems, motivation and leadership, time and territory management, sales forecasting, quotas, and evaluating the sales force.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 335 - Consumer Behavior

3 Credit(s)

Study of consumer behavior as it relates to the marketing functions. Emphasis on the models of consumer behavior and their application to practical marketing problems.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 345 - Advertising

3 Credit(s)

Discusses the history, purposes, and regulations of the advertising industry. Topics covered include creative principles, media advantages and disadvantages, media planning, regulation of advertising, and coordination with other promotion activities.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 448 - Interactive/Social Media Marketing

3 Credit(s)

This course focuses on relationship marketing, interactive marketing, integration of consumer data, Internet marketing (E-commerce), media advertising, catalogs, mailing lists, telemarketing, and the use of direct marketing techniques to replace or enhance the traditional marketing methods of retail and direct sales.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 454 - Market Research & Information

3 Credit(s)

Study of the theory and methods used in marketing research to address marketing problems. May include the completion of a research project where students learn by performing a research project from problem formulation to

writing a research report. Also prepares the students for evaluating research performed by others.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T
AND

BUS 318 Minimum Grade: C- OR T

BUS 460 - Marketing Management

3 Credit(s)

Twelve hours of marketing courses and senior status required. Capstone course in marketing. Study of the problems faced by marketing managers as they make decisions and develop policies.

Prerequisite(s):

BUS 454 Minimum Grade: C- OR T

Plus any 3 Courses from the Following

BUS 356 - Retailing

3 Credit(s)

Study of marketing and management problems faced in the operation of a retail business. Emphasis is given to techniques for solving problems in location, management, and merchandising, especially with the integration of Internet retailing (E-Tailing) as both a competitor and an extension of the storefront business.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 385 - Sports Marketing

3 Credit(s)

Illustrates the dynamic, progressive and influential nature of sports marketing. Explores the sport marketing concept as a consumer-driven, integrated, goal-oriented philosophy for a team, event, organization or athlete. Topics covered include: athletic endorsements, team sports, event sponsorships and alternative sports.

BUS 441 - International Marketing

3 Credit(s)

Analysis of opportunities, distinctive characteristics, and emerging trends in foreign markets, including exploration of alternative methods and strategies for entering foreign markets; organizational planning and control; impact of social, cultural, economic, and political differences; and problems of adapting American marketing concepts and methods. This is accomplished through real life planning and implementation of an international marketing plan designed to market a product or service in a foreign country or countries

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 449 - Marketing in the 21st Century

3 Credit(s)

This course provides the practical tools and strategies required to successfully leverage social networks, capitalize on their powerful word-of-mouth lift, and how to measure these interactive marketing efforts. These tools will be used on an actual social media marketing campaign for a business or non-profit entity. Current and future marketing tools will be discussed and evaluated.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T
AND

BUS 448 Minimum Grade: C- OR T

HCA 305 - Health Care Marketing

3 Credit(s)

This course involves an analysis, evaluation, and implementation of marketing strategies within health care and managed-care environments. Designed to develop skills in segmenting customer and medical markets, brand products and services, enhance a communication strategy to the consumer, and develop pricing approaches. Methods and models of marketing fundamentals will be introduced.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

Bachelor of Science in Business Administration, Systemic Change and Communities Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The

course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal

and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial

theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Systemic Change and Communities Emphasis

24 credits from the following (8 Classes) is Required

BUS 316 - Public and Nonprofit Mgmt

3 Credit(s)

This course is designed to examine public and nonprofit management. This type of management is driven by mission and/or executive/legislative directions. It is not about the bottom line or profit. Students will learn both the theory and practice of public and nonprofit management, using the concept case method and service learning opportunities.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 419 - Organizational Change/Develop

3 Credit(s)

The study of planned and unplanned change in organizations to include diagnosis, planning, and implementation of organizational change initiatives. Emphasis is on teamwork within organizations and survey development.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 488 - Agricultural Policy and Farm Bill

3 Credit(s)

Development and implementation of public policy in agriculture, implications of international competition and trade, and development and interpretation of argument in policy development.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

BUS 498 - World Food Distribution/Agricultural Economics

3 Credit(s)

Knowledge and application of economic concepts to the sectors of agriculture including microeconomic and macroeconomic relationships, world markets, and trade.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

ECON 360 - Natural Resource Economics

3 Credit(s)

This course studies the usage of natural resources in the economy, the value of natural resources to society, and the allocation of renewable and nonrenewable resources. The course introduces economic theories for efficient management of natural resources and considers sustainability, conservation, and preservation. The course will consider resources, such as water, on a local scale as well as a global scale.

ECON 365 - Political Economy

3 Credit(s)

This course offers a critical introduction to the central ideas used by Political Economists to understand the structure, social meaning, and historical development of capitalist economies. Lectures draw on competing traditions in Political Economy to provide a critical appreciation of the defining socio-economic relationships of capitalism, including wages, productivity, profits, inequality, prices, entrepreneurship, markets, capitalism, growth, crises, recessions, socialism, etc. While these discussions necessarily involve economic theory, the overall emphasis is on how an analytically diverse understanding of these relationships can open up unique, critical perspectives into the problems of contemporary capitalism.

ECON 370 - Economics of Crises

3 Credit(s)

This course studies the nature of economic crises in capitalism. The course will explore theories of crises such as supply-side, demand-side, and financial crises. We will analyze the social consequences of crises as well as the policies implemented.

ECON 425 - Economic Policy

3 Credit(s)

Study of the structure and functions of the U.S. economic system and the use of monetary, fiscal, and other policies to stabilize the economy. Emphasis on historical roots and the evolution into new behavioral economic ideas as well as the complex interplay of policy and economic forces.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

HCA 402 - Public and Population Health

3 Credit(s)

This course consists of an examination of epidemiological concepts and methods of studying the distribution and determinants of morbidity and mortality in human population. The knowledge and skills acquired should enable one to understand and critically review scientific literature dealing with epidemiology concepts and measures. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

HCA 455 - Health Care Economics

3 Credit(s)

This course will examine health care decision-making and the functioning of health care markets in the U.S. The course is not designed as a pure economics theory course but instead emphasizes how you can frame and analyze various health issues using the principles of economics. By doing so, you will gain a powerful new perspective that will help you understand the decisions made by individuals and organizations in the face of scarce resources. Instructor permission.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 462 - Quality Management in Health Care

3 Credit(s)

Quality is an important aspect of health care; indeed, for most people, it is the most important aspect. Quality is defined in the dictionary as "degree of excellence" or "superiority in kind." Quality of care must be part of both the process and outcome of health care whenever possible. The issue is how does the system develop mechanisms to assure such quality? This course serves as an introduction to the process of quality management in health care organizations. Principles of total quality in health care will be discussed. Differentiation between quality assurance and quality management will also be presented. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

Plus 12 hours of upper level courses as determined in consultation with your advisor

Bachelor of Science in Business Administration, Project Management Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

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3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

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3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Project Management Emphasis

BUS 351 - Data Analysis

3 Credit(s)

This course introduces data manipulation and analytical techniques to identify insights, improve the ability to make predictions and prescribe future actions to make better business decisions. Excel Software will be used extensively.

Prerequisite(s):

BUS 120, BUS 318

OR

Permission of instructor

BUS 352 - Spreadsheet Modeling

3 Credit(s)

This course covers the fundamentals of spreadsheet modeling in Excel. The course includes spreadsheet modeling, graphical linear programming, linear programming in spreadsheets, time series forecasting, Monte Carlo simulation and decision analysis.

Prerequisite(s):

BUS 120, BUS 318

OR

Permission of instructor

BUS 357 - Project Management

3 Credit(s)

This course covers the fundamentals of project management including project definition, project selection, project planning, estimating, scheduling, resource allocation and project control.

Prerequisite(s):

BUS 120, BUS 318, BUS 361, BUS 363

OR

Permission of instructor

BUS 451 - Statistical Quality Control

3 Credit(s)

Theory and methods used in statistical quality control. Emphasizes basic statistical analysis, variables control charts, attributes control charts, interpretation of control charts, estimation of process parameters, gage capability, acceptance sampling, and service quality.

Prerequisite(s):

BUS 120, BUS 318
OR

Permission of instructor

BUS 452 - Supply Chain Management

3 Credit(s)

Analysis and management of supply chain and logistics management. Topics include customer service, inventory management, information systems, transportation, warehousing, logistics relationships, performance measurement, and supply chain strategy.

Prerequisite(s):

BUS 120, BUS 318, BUS 361, BUS 363
OR

Permission of instructor

BUS 457 - Process Improvement Management

3 Credit(s)

This course introduces continuous improvement concepts via Six Sigma's DMAIC improvement cycle and improvement tools. Students will develop a working knowledge of how to apply these methodologies to improve processes.

Prerequisite(s):

BUS 318, BUS 451
OR

Permission of instructor

Plus 6 Credits from 300-400 Level Business/Econ Courses Approved by the Student's Advisor

Master of Arts in Public Administration

Go to: Business

This is a fully online 36 credit master's degree offered with the option of either two tracks: Applied Public Administration or General Public Administration.

The program is designed for professionals who are already working in the public and non-profit sectors or pre-professionals who want to start a career in public service. The program mixes skills-based coursework with real practical experience working in public agencies. It will prepare its graduates to work in positions in the federal, state, and local government as well as non-profit organizations.

The degree is delivered through semester based, interactive, online courses. The program, which can be completed in 2 years, is designed for students who are also working full-time. This MA degree can lead to career advancement for

public servants who want to move into management positions. It will also provide the skill development necessary for public managers to do their jobs more effectively.

Program Goals

- Provide a high quality, low cost, master's degree focusing on public administration.
- Provide students with maximum flexibility through use of fully online delivery.
- Employ a curriculum that mixes skills based course work with real practical experiences.
- Prepare pre-professional students with the skills to enter the public service.
- Provide professionals already working in public administration with the skills to advance their careers.

Track 1: Applied Public Administration

Required Core

MPA 500 - Introduction to Public Administration

3 Credit(s)

An introductory survey to the field of public administration, especially historical, political, and organizational approaches to ethical and reflective professional practice.

MPA 503 - Applied Research Methods in Public Administration

3 Credit(s)

This course provides an introduction to the major research methods used in public administration. The goal of the course is to acquaint students with the basic approaches, concepts, and tools of research with a focus on their application in public and non-profit settings.

MPA 510 - Practicum

1 Credit(s)

This course provides students with actual experiences, through projects and practical activities, in the practice of public administration in a professional setting. Students will work with practicing administrators in public/non-profit agencies under the direction of a workplace supervisor. This practicum will require students to work at least 50 hours and demonstrate an ability to apply the concepts and skills learned in the classwork to a professional setting through artifacts tied to MPA 503 and MPA 508.

MPA 516 - Practicum II

1 Credit(s)

This course provides students with actual experiences, through projects and practical activities, in the practice of fiscal project, and/or human resources management in a professional setting. Students will work with practicing

administrators in public/non-profit agencies under the direction of a workplace supervisor. This practicum will require students to work at least 50 hours and demonstrate an ability to apply the concepts and skills learned in the classwork to a professional setting through artifacts tied to MPA 512 and MPA 514.

MPA 520 - Practicum III

3 Credit(s)

This course provides students with actual experiences, through projects and practical activities, in the assessment of public policies and procedures in a professional setting. Students will work with practicing administrators in public/non-profit agencies under the direction of a workplace supervisor. This practicum will require students to work at least 150 hours and demonstrate an ability to apply the concepts and skills learned in the classwork to a professional setting.

MPA 528 - Practicum IV

1 Credit(s)

This course provides students with actual experiences, through projects and practical activities, in a professional setting. The practicum will focus on elements of community planning and economic development. Students will work with practicing administrators in public/non-profit agencies under the direction of a workplace supervisor. The practicum will require students to work at least 50 hours and demonstrate an ability to apply the concepts and skills learned in the classwork to a professional setting through artifacts tied to MPA 524 and 526.

MPA 530 - Public Policy Analysis

3 Credit(s)

This course examines the multiple ways in which public policy is made in the U.S. including the various processes of policy making and the actors and institutions involved in overseeing those processes. It also examines a number of the pressing policy issues facing the nation today as well as some of the solutions that have been tried or proposed.

MPA 533 - Organizational and Community Behavior

3 Credit(s)

Examines the organizational and community context in which public manager must operate. Including a focus on why people behave the way they do in organizations and what can be done to change those behaviors. This includes the most effective communications strategies used in dealing with community groups, advisory boards and councils. The course will review a wide range of situations and examples of human behavior and connect them in foundational theories and effective practical management methods.

MPA 550 - Public Administration Capstone

3 Credit(s)

The Capstone Course offers each student the opportunity to demonstrate mastery of the theory and practice of public administration by applying the knowledge and skills gained in the MPA and MBA-PA programs. This involves completing a portfolio project reflecting the cumulative knowledge gained from these experiences.

Prerequisite(s):

Admission to MPA or MBA program

Elective Coursework - 15 Credits from MPA or MBA program

Track 2: General Public Administration

Required Core

MPA 500 - Introduction to Public Administration

3 Credit(s)

An introductory survey to the field of public administration, especially historical, political, and organizational approaches to ethical and reflective professional practice.

MPA 503 - Applied Research Methods in Public Administration

3 Credit(s)

This course provides an introduction to the major research methods used in public administration. The goal of the course is to acquaint students with the basic approaches, concepts, and tools of research with a focus on their application in public and non-profit settings.

MPA 530 - Public Policy Analysis

3 Credit(s)

This course examines the multiple ways in which public policy is made in the U.S. including the various processes of policy making and the actors and institutions involved in overseeing those processes. It also examines a number of the pressing policy issues facing the nation today as well as some of the solutions that have been tried or proposed.

MPA 533 - Organizational and Community Behavior

3 Credit(s)

Examines the organizational and community context in which public manager must operate. Including a focus on why people behave the way they do in organizations and what can be done to change those behaviors. This includes the most effective communications strategies used in dealing with community groups, advisory boards and councils. The course will review a wide range of situations and examples of human behavior and connect them in foundational theories and effective practical management methods.

MPA 550 - Public Administration Capstone

3 Credit(s)

The Capstone Course offers each student the opportunity to demonstrate mastery of the theory and practice of public administration by applying the knowledge and skills gained in the MPA and MBA-PA programs. This involves completing a portfolio project reflecting the cumulative knowledge gained from these experiences.

Prerequisite(s):

Admission to MPA or MBA program

Elective Coursework - 21 Credits from MPA or MBA program

Master of Business Administration, Finance Emphasis

Master of Business Administration

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The online M.B.A. curriculum is well suited for people with either business or non-business undergraduate degrees. You'll spend six continuous semesters, or two years, learning key business, health administration, leadership, and public administration concepts to make you more effective in your current job or to open new employment opportunities.

The online M.B.A. curriculum offers a level of quality and rigor consistent with Adams State's reputation for excellence as an educational institution. The distance M.B.A. program welcomes students from around the globe.

Master of Business Administration Core Requirements

BUS 500 - Leadership Skills for Managers

3 Credit(s)

This course teaches practical skills required for effective management at all levels of an organization, and is designed to increase a learner's understanding of key concepts and procedural guidelines related to organizational management, human resource, and leadership. The purpose is to be equipped to deal effectively with managerial challenges dealing with people.

BUS 505 - Creating Consumer Value

3 Credit(s)

This course presents learners with a comprehensive approach to creating consumer value. This includes marketing and brand management in for-profit firms as well as identifying and meeting consumer needs in non-profit and governmental organizations. Topics include segmentation and targeting of consumers; the positioning levers of product, price, promotion, and distribution; and brand management.

ECON 505 - Managerial Economics

3 Credit(s)

This course demonstrates how economics theory is applied to national and international managerial decision-making. The course covers topics such as demand analysis, production and cost functions, market structure, managerial understanding of public policy, and international trade finance topics. Pre-req.-Undergraduate Economics course with a grade of C or higher.

BUS 520 - Managerial Accounting

3 Credit(s)

This course provides a review of financial reporting standards and statements and analysis of those financial statements. Managerial accounting principles will be explored as well as budgeting, cost allocation, accumulation, cost behavior, and relevant costs; revenues are approached from a managers' perspective. Prerequisite: undergraduate accounting course with a grade of C or higher.

BUS 525 - Financial Analysis

3 Credit(s)

Students will embark on studying basic financial principles and enhance that with understanding various valuation concepts and methods. Emphasis is also placed on capital budgeting and long term financing as well as working capital management. The course will blend time-tested finance principles and the latest advancements with the practical perspectives of the financial manager. Prerequisite: undergraduate accounting course with a grade of C or higher.

Prerequisite(s):

BUS 520 Minimum Grade: C

BUS 540 - Strategy

3 Credit(s)

In this course, learners examine tools and techniques for competitive analysis, strategic planning, and strategy implementation. Learners gain knowledge of the tools and concepts needed to develop a business strategy including macro environmental scanning, industry and competitive analysis, value chain analysis, SWOT analysis, identification of critical success factors and driving forces, and development of strategic alternatives and recommendations.

Finance Emphasis

BUS 531 - Multinational Financial Management

3 Credit(s)

Multinational Financial Management course has two emphases: one on the basics and the other on a managerial perspective. As international capital markets of the world become more integrated, an understanding of international financial management has become important for U.S. corporate decision making. This course provides students with groundwork for analysis that will serve them well in their future careers. The decision-making process in this course will teach students how to make knowledgeable managerial decisions in an ever changing global financial setting.

Prerequisite(s):

BUS 525 Minimum Grade: B-

BUS 532 - Portfolio Management and Investment Analysis

3 Credit(s)

The unifying theme of this course is that security markets are almost efficient, meaning that most securities are priced appropriately given their risk and return attributes. The course is a blend of practical and theoretical coverage combined with a complete digital solution to focus on making investment decisions from the perspective of the portfolio manager. This course also covers the Series 7 License and is designed to prepare the student for taking the National Association of Securities Dealers General Securities Representative Exam.

Prerequisite(s):

BUS 525 Minimum Grade: B-

BUS 533 - Financial Markets and Institutions

3 Credit(s)

This course is a great reflection of the latest developments from the field of financial markets. It helps students understand why financial markets exist, how financial institutions serve these markets, and what services those institutions offer. The course also focuses on the management, performance, and regulatory aspects of financial institutions and explores the functions of the Federal Reserve System, as well as the major debt and equity security markets, and derivative security market.

Prerequisite(s):

BUS 525 Minimum Grade: B-

BUS 534 - Finance Capstone

3 Credit(s)

This course uses a case study approach to solve complicated corporate problems and links managerial decisions to capital markets and the expectations of investors. Students will gain a deeper understanding of financial issues that they encounter in their professional career. At the core of the cases is a valuation task that requires students to look to financial markets for guidance in resolving the case problem. The focus on value helps the students understand the impact of the firm on the world around it.

Prerequisite(s):

BUS 525 Minimum Grade: B-
AND

BUS 531 Minimum Grade: B-

AND

BUS 532 Minimum Grade: B-

AND

BUS 533 Minimum Grade: B-

Master of Business Administration, Healthcare Emphasis

Go to: Business

Master of Business Administration

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The online M.B.A. curriculum offers a level of quality and rigor consistent with Adams State's reputation for excellence as an educational institution. The distance M.B.A. program welcomes students from around the globe.

Master of Business Administration Core Requirements

BUS 500 - Leadership Skills for Managers

3 Credit(s)

This course teaches practical skills required for effective management at all levels of an organization, and is designed to increase a learner's understanding of key concepts and procedural guidelines related to organizational management, human resource, and leadership. The purpose is to be equipped to deal effectively with managerial challenges dealing with people.

BUS 505 - Creating Consumer Value

3 Credit(s)

This course presents learners with a comprehensive approach to creating consumer value. This includes marketing and brand management in for-profit firms as well as identifying and meeting consumer needs in non-profit and governmental organizations. Topics include segmentation and targeting of consumers; the positioning levers of product, price, promotion, and distribution; and brand management.

ECON 505 - Managerial Economics

3 Credit(s)

This course demonstrates how economics theory is applied to national and international managerial decision-making. The course covers topics such as demand analysis, production and cost functions, market structure, managerial understanding of public policy, and international trade finance topics. Pre-req.-Undergraduate Economics course with a grade of C or higher.

BUS 520 - Managerial Accounting

3 Credit(s)

This course provides a review of financial reporting standards and statements and analysis of those financial statements. Managerial accounting principles will be explored as well as budgeting, cost allocation, accumulation, cost behavior, and relevant costs; revenues are approached from a managers' perspective. Prerequisite: undergraduate accounting course with a grade of C or higher.

BUS 525 - Financial Analysis

3 Credit(s)

Students will embark on studying basic financial principles and enhance that with understanding various valuation concepts and methods. Emphasis is also placed on capital budgeting and long term financing as well as working capital management. The course will blend time-tested finance principles and the latest advancements with the practical perspectives of the financial manager. Prerequisite: undergraduate accounting course with a grade of C or higher.

Prerequisite(s):

BUS 520 Minimum Grade: C

BUS 540 - Strategy

3 Credit(s)

In this course, learners examine tools and techniques for competitive analysis, strategic planning, and strategy implementation. Learners gain knowledge of the tools and concepts needed to develop a business strategy including macro environmental scanning, industry and competitive analysis, value chain analysis, SWOT analysis, identification of critical success factors and driving forces, and development of strategic alternatives and recommendations.

Healthcare Emphasis

HCA 545 - Public Health

3 Credit(s)

This course provides a comprehensive coverage of traditional public health responsibilities- assessing the burden of disease, preventing and controlling health threats, and developing policies and public administration responses to improve health --in a contemporary framework. It covers the basics of administration, including public health law, human resources management, budgeting and financing, and legislative relations in public health.

HCA 550 - Elderly and Managed Care

3 Credit(s)

This course will consider long-term service delivery programs designed to meet the special needs of seniors. The course will include a managerial overview of seniors' housing and care and will analyze the demographics of aging, the role of financing, and the evolving marketplace.

HCA 555 - Health Policy

3 Credit(s)

Critical analysis of federal and state health policy processes, outcomes, and issues. This course allows students to examine the efficiency and effectiveness of health policy issues associated with access, cost, and quality. Emphasis is placed on policy formulation, implementation, assessment, and modification.

Prerequisite(s):

HCA 303 Minimum Grade: C

HCA 590 - Practicum

3 Credit(s)

The MHA Practicum: executive skill development is designed to develop and enhance the skills necessary for success as a healthcare executive through management practice in health care administration. The course provides the students the opportunity to gain practical experience and integrate classroom knowledge and theory in an administrative setting within the health care industry.

OR

HCA 595 - HCA Thesis

3 Credit(s)

The research project serves as a capstone experience as students complete the MBA emphasis area of study. Students will complete a research project involving an introduction to the problem or research question, comprehensive in-depth review of the current literature, research methodology, data collection, and analysis if applicable, and conclusions.

Prerequisite(s):

BUS 515 Minimum Grade: C

Master of Business Administration, Leadership Emphasis

Master of Business Administration

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Master of Business Administration Core Requirements

BUS 500 - Leadership Skills for Managers

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BUS 505 - Creating Consumer Value

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BUS 525 - Financial Analysis

3 Credit(s)

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Prerequisite(s):

BUS 520 Minimum Grade: C

BUS 540 - Strategy

3 Credit(s)

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Leadership Emphasis

BUS 545 - Leading Entrepreneurial Organizations

3 Credit(s)

Successful organizations emphasize learning to sustain their competitive advantage. This course will study entrepreneurship and intrapreneurship. Areas of emphasis include uncovering the methodologies and characteristics that foster innovations and achieve meaningful change in business that leads to the creation and implementation of profitable business opportunities.

BUS 550 - Technology and Innovation

3 Credit(s)

This course adopts the perspective of a general manager-- an individual charged with diagnosing complex situations and resolving them in ways that enhance organizational performance. The course emphasizes how general management decisions may contribute to the creation and appropriation of economic value through innovation.

BUS 555 - Leading for Results

3 Credit(s)

This course focuses on how leaders mobilize others within their organization to get extraordinary things done. You will analyze what characteristics you need to develop to achieve your own professional goals and reflect on ways you can develop your competencies as a leader.

BUS 560 - Leadership Capstone

3 Credit(s)

This capstone course integrates knowledge gained in the previous graduate business courses. It centers on the theme that organizations achieve sustained success when their managers have astute, timely, strategic game plans, and they implement these plans with proficiency. This class incorporates the "big picture" and cuts across the whole spectrum of business and leadership.

Master of Business Administration, Public Administration Emphasis

Master of Business Administration

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Master of Business Administration Core Requirements

BUS 500 - Leadership Skills for Managers

3 Credit(s)

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BUS 505 - Creating Consumer Value

3 Credit(s)

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BUS 520 - Managerial Accounting

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This course provides a review of financial reporting standards and statements and analysis of those financial statements. Managerial accounting principles will be explored as well as budgeting, cost allocation, accumulation, cost behavior, and relevant costs; revenues are approached from a managers' perspective. Prerequisite: undergraduate accounting course with a grade of C or higher.

BUS 525 - Financial Analysis

3 Credit(s)

Students will embark on studying basic financial principles and enhance that with understanding various valuation concepts and methods. Emphasis is also placed on capital budgeting and long term financing as well as working capital management. The course will blend time-tested finance principles and the latest advancements with the practical perspectives of the financial manager. Prerequisite: undergraduate accounting course with a grade of C or higher.

Prerequisite(s):

BUS 520 Minimum Grade: C

BUS 540 - Strategy

3 Credit(s)

In this course, learners examine tools and techniques for competitive analysis, strategic planning, and strategy implementation. Learners gain knowledge of the tools and concepts needed to develop a business strategy including macro environmental scanning, industry and competitive analysis, value chain analysis, SWOT analysis, identification of critical success factors and driving forces, and development of strategic alternatives and recommendations.

Public Administration Emphasis

BUS 580 - Public/Nonprofit Management

3 Credit(s)

This course is designed to examine public and nonprofit management. This type of management is driven by mission and/or executive/legislative direction. Students will learn both the theory and practice of public and nonprofit management, using the concept case method and service learning opportunities.

BUS 585 - Public Budgeting and Finance

3 Credit(s)

The course is designed to provide the student with an understanding of the primary financial management issues and decisions that confront senior management in the nonprofit and the public sectors. Students will gain an understanding and examine financial analysis techniques from both a practical and strategic perspective for operating and capital decisions.

BUS 590 - Policy Analysis

3 Credit(s)

This course introduces the study of public policy and analysis. It provides an overview of key policy areas and examines three aspects of public policy study: (a) government institutions and the policy making process, (b) the concepts and methods of policy analysis, and (c) the role of policy analysis in clarifying public problems and helping citizens and policymakers choose from among policy alternatives.

BUS 595 - Public Administration Capstone

3 Credit(s)

The Capstone Course offers each student the opportunity to demonstrate mastery of the theory and practice of public administration by applying the knowledge and skills gained in the MBA-PA program. This involves completing a portfolio project reflecting the cumulative knowledge gained from these experiences.

Business Leadership Certificate

Go to: Business

Required Courses

BUS 500 - Leadership Skills for Managers

3 Credit(s)

This course teaches practical skills required for effective management at all levels of an organization, and is designed to increase a learner's understanding of key concepts and procedural guidelines related to organizational management, human resource, and leadership. The purpose is to be equipped to deal effectively with managerial challenges dealing with people.

BUS 545 - Leading Entrepreneurial Organizations

3 Credit(s)

Successful organizations emphasize learning to sustain their competitive advantage. This course will study entrepreneurship and intrapreneurship. Areas of emphasis include uncovering the methodologies and characteristics that foster innovations and achieve meaningful change in business that leads to the creation and implementation of profitable business opportunities.

BUS 550 - Technology and Innovation

3 Credit(s)

This course adopts the perspective of a general manager-- an individual charged with diagnosing complex situations and resolving them in ways that enhance organizational performance. The course emphasizes how general management decisions may contribute to the creation and appropriation of economic value through innovation.

BUS 555 - Leading for Results

3 Credit(s)

This course focuses on how leaders mobilize others within their organization to get extraordinary things done. You will analyze what characteristics you need to develop to achieve your own professional goals and reflect on ways you can develop your competencies as a leader.

BUS 560 - Leadership Capstone

3 Credit(s)

This capstone course integrates knowledge gained in the previous graduate business courses. It centers on the theme that organizations achieve sustained success when their managers have astute, timely, strategic game plans, and they implement these plans with proficiency. This class incorporates the "big picture" and cuts across the whole spectrum of business and leadership.

Business Qualitative Skills Certificate

Go to: Business

Required Courses

BUS 500 - Leadership Skills for Managers

3 Credit(s)

This course teaches practical skills required for effective management at all levels of an organization, and is designed to increase a learner's understanding of key concepts and procedural guidelines related to organizational management, human resource, and leadership. The purpose is to be equipped to deal effectively with managerial challenges dealing with people.

BUS 505 - Creating Consumer Value

3 Credit(s)

This course presents learners with a comprehensive approach to creating consumer value. This includes marketing and brand management in for-profit firms as well as identifying and meeting consumer needs in non-profit and governmental organizations. Topics include segmentation and targeting of consumers; the positioning levers of product, price, promotion, and distribution; and brand management.

BUS 540 - Strategy

3 Credit(s)

In this course, learners examine tools and techniques for competitive analysis, strategic planning, and strategy implementation. Learners gain knowledge of the tools and concepts needed to develop a business strategy including macro environmental scanning, industry and competitive analysis, value chain analysis, SWOT analysis, identification of critical success factors and driving forces, and development of strategic alternatives and recommendations.

- Plus 1 500 Level Elective **3 Credit(s)**

Business Quantitative Skills Certificate

Go to: Business

Required Courses

BUS 520 - Managerial Accounting

3 Credit(s)

This course provides a review of financial reporting standards and statements and analysis of those financial statements. Managerial accounting principles will be explored as well as budgeting, cost allocation, accumulation, cost behavior, and relevant costs; revenues are approached from a managers' perspective. Prerequisite: undergraduate accounting course with a grade of C or higher.

BUS 525 - Financial Analysis

3 Credit(s)

Students will embark on studying basic financial principles and enhance that with understanding various valuation concepts and methods. Emphasis is also placed on capital budgeting and long term financing as well as working capital management. The course will blend time-tested finance principles and the latest advancements with the practical perspectives of the financial manager. Prerequisite: undergraduate accounting course with a grade of C or higher.

Prerequisite(s):

BUS 520 Minimum Grade: C

- Plus 1 BUS 500 Level Elective **3 Credit(s)**

ECON 505 - Managerial Economics

3 Credit(s)

This course demonstrates how economics theory is applied to national and international managerial decision-making. The course covers topics such as demand analysis, production and cost functions, market structure, managerial understanding of public policy, and international trade finance topics. Pre-req.-Undergraduate Economics course with a grade of C or higher.

Finance Certificate

Go to: Business

Required Courses

BUS 525 - Financial Analysis

3 Credit(s)

Students will embark on studying basic financial principles and enhance that with understanding various valuation

concepts and methods. Emphasis is also placed on capital budgeting and long term financing as well as working capital management. The course will blend time-tested finance principles and the latest advancements with the practical perspectives of the financial manager. Prerequisite: undergraduate accounting course with a grade of C or higher.

Prerequisite(s):

BUS 520 Minimum Grade: C

BUS 531 - Multinational Financial Management

3 Credit(s)

Multinational Financial Management course has two emphases: one on the basics and the other on a managerial perspective. As international capital markets of the world become more integrated, an understanding of international financial management has become important for U.S. corporate decision making. This course provides students with groundwork for analysis that will serve them well in their future careers. The decision-making process in this course will teach students how to make knowledgeable managerial decisions in an ever changing global financial setting.

Prerequisite(s):

BUS 525 Minimum Grade: B-

BUS 532 - Portfolio Management and Investment Analysis

3 Credit(s)

The unifying theme of this course is that security markets are almost efficient, meaning that most securities are priced appropriately given their risk and return attributes. The course is a blend of practical and theoretical coverage combined with a complete digital solution to focus on making investment decisions from the perspective of the portfolio manager. This course also covers the Series 7 License and is designed to prepare the student for taking the National Association of Securities Dealers General Securities Representative Exam.

Prerequisite(s):

BUS 525 Minimum Grade: B-

BUS 533 - Financial Markets and Institutions

3 Credit(s)

This course is a great reflection of the latest developments from the field of financial markets. It helps students understand why financial markets exist, how financial institutions serve these markets, and what services those institutions offer. The course also focuses on the management, performance, and regulatory aspects of financial institutions and explores the functions of the Federal Reserve System, as well as the major debt and equity security markets, and derivative security market.

Prerequisite(s):

BUS 525 Minimum Grade: B-

BUS 534 - Finance Capstone

3 Credit(s)

This course uses a case study approach to solve complicated corporate problems and links managerial decisions to capital markets and the expectations of investors. Students will gain a deeper understanding of financial issues that they

encounter in their professional career. At the core of the cases is a valuation task that requires students to look to financial markets for guidance in resolving the case problem. The focus on value helps the students understand the impact of the firm on the world around it.

Prerequisite(s):

BUS 525 Minimum Grade: B-
AND

BUS 531 Minimum Grade: B-
AND

BUS 532 Minimum Grade: B-
AND

BUS 533 Minimum Grade: B-

Health Administration Certificate (Graduate)

Go to: Business

Required Courses

- Any 4 HCA 500 level courses

Public Administration Certificate

Go to: Business

Required Courses

- Any 4 MPA 500 level courses

Public Sector Leadership Certificate

Go to: Business

The certificate will provide an opportunity for graduate study in Public Administration without committing to earning a full master's degree. This should be especially appealing to current public managers who already have a graduate degree in another field.

Completion of the graduate certificate will also allow potential students to test out graduate study without entering a full degree program.

Required Courses

MPA 500 - Introduction to Public Administration

3 Credit(s)

An introductory survey to the field of public administration, especially historical, political, and organizational approaches to ethical and reflective professional practice.

MPA 550 - Public Administration Capstone

3 Credit(s)

The Capstone Course offers each student the opportunity to demonstrate mastery of the theory and practice of public administration by applying the knowledge and skills gained in the MPA and MBA-PA programs. This involves completing a portfolio project reflecting the cumulative knowledge gained from these experiences.

Prerequisite(s):

Admission to MPA or MBA program

Plus 6 credits of elective coursework from MPA offerings

Business Administration Certificate

Required Courses

BUS 500 - Leadership Skills for Managers

3 Credit(s)

This course teaches practical skills required for effective management at all levels of an organization, and is designed to increase a learner's understanding of key concepts and procedural guidelines related to organizational management, human resource, and leadership. The purpose is to be equipped to deal effectively with managerial challenges dealing with people.

BUS 505 - Creating Consumer Value

3 Credit(s)

This course presents learners with a comprehensive approach to creating consumer value. This includes marketing and brand management in for-profit firms as well as identifying and meeting consumer needs in non-profit and governmental organizations. Topics include segmentation and targeting of consumers; the positioning levers of product, price, promotion, and distribution; and brand management.

ECON 505 - Managerial Economics

3 Credit(s)

This course demonstrates how economics theory is applied to national and international managerial decision-making. The course covers topics such as demand analysis, production and cost functions, market structure, managerial understanding of public policy, and international trade finance topics. Pre-req.-Undergraduate Economics course with a grade of C or higher.

BUS 520 - Managerial Accounting

3 Credit(s)

This course provides a review of financial reporting standards and statements and analysis of those financial statements. Managerial accounting principles will be explored as well as budgeting, cost allocation, accumulation, cost behavior, and relevant costs; revenues are approached from a managers' perspective. Prerequisite: undergraduate accounting course with a grade of C or higher.

BUS 525 - Financial Analysis

3 Credit(s)

Students will embark on studying basic financial principles and enhance that with understanding various valuation concepts and methods. Emphasis is also placed on capital budgeting and long term financing as well as working capital management. The course will blend time-tested finance principles and the latest advancements with the practical perspectives of the financial manager. Prerequisite: undergraduate accounting course with a grade of C or higher.

Prerequisite(s):

BUS 520 Minimum Grade: C

BUS 540 - Strategy

3 Credit(s)

In this course, learners examine tools and techniques for competitive analysis, strategic planning, and strategy implementation. Learners gain knowledge of the tools and concepts needed to develop a business strategy including macro environmental scanning, industry and competitive analysis, value chain analysis, SWOT analysis, identification of critical success factors and driving forces, and development of strategic alternatives and recommendations.

General Business Certificate

Go to: Business

Courses (16 credit hours)

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 179 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

Health Administration Certificate (Undergraduate)

Go to: Business

Courses (16 credits total)

HCA 303 - Trends and Issues in Health Care

3 Credit(s)

This course is an introductory Health Care Administration course and will expose the student to the industry and its significant elements and trends of the current health care environment.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

HCA 311 - Health Care Law and Ethics

3 Credit(s)

This course presents an overview of the legal and ethical issues faced by health care consumers, practitioners, and administrators. The course will introduce students to the legal aspects of health care at the federal, state, and local levels. Topics covered will include criminal and civil claims against health care providers, corporate and individual liability, and legal and ethical decision-making, individual liability, and legal and ethical decision-making. HCA 361 Health Care Administration. Instructor permission.

Prerequisite(s):

BUS 211 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 325 - Health Care Informatics

3 Credit(s)

This course is a study of record keeping practices in the hospital and physician's office. Emphasis is placed in hospital and medical staff organization, patient record content, procedures in filing, numbering and retention of patient records, quantitative analysis, release of patient information, forms control and design, indexes and registers, reimbursement, regulatory and accrediting agencies, and alternate health care delivery systems. Instructor permission required.

Prerequisite(s):

BUS 120 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 363 - Health Care Finance

3 Credit(s)

This course is devoted to the practical aspects of finance in health care, an examination of current practices in financial management of health care organizations, and managerial applications to specific problems facing health care managers. The first part of the course will focus on an overview of health care finance, managerial accounting, and financial analysis. The second part will continue with managerial accounting and financial analysis and will concentrate on the various tools used in financial management. Emphasis is placed on unique issues and concerns that result from the regulatory framework of health care organizations. At the conclusion of this course, the student should be able to discuss the financial structure, market forces, controls and techniques used in the health care management field, be able

to read and analyze financial statements and budgets and have the skill to interpret financial and operating performance.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

HCA 402 - Public and Population Health

3 Credit(s)

This course consists of an examination of epidemiological concepts and methods of studying the distribution and determinants of morbidity and mortality in human population. The knowledge and skills acquired should enable one to understand and critically review scientific literature dealing with epidemiology concepts and measures. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

BUS 179 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

Minor in Accounting

Go to: Business

A minor in accounting requires 18 hours in business and/or economics, of which a minimum of 15 hours must be in accounting. All 18 hours may be in accounting.

Minimum of 15 Hours from the Following

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 305 - Intermediate Accounting I

4 Credit(s)

The first of a two-course sequence of Intermediate Accounting designed to develop a framework for the role financial accounting plays in the world of business. A study of the conceptual basis of accounting will be conducted, creating a more in-depth understanding of the preparation and interpretation of financial statements and related information. This course will focus on the study of modern-day accounting theory and application of generally accepted accounting principles to various topics and financial statement elements. Students will be introduced to the U.S. Accounting Standards Codification and basic research tools.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 306 - Intermediate Accounting II

4 Credit(s)

The second of a two-course sequence of Intermediate Accounting designed to develop a framework for the role financial accounting plays in the world of business. A study of the conceptual basis of accounting will be conducted, creating a more in-depth understanding of the preparation and interpretation of financial statements and related information. This course will focus on the study of modern-day accounting theory and application of generally accepted accounting principles to various topics and financial statement elements. Students will continue their use of the U.S. Accounting Standards Codification as a research tools.

Prerequisite(s):

BUS 305 Minimum Grade: C- OR T

BUS 307 - Managerial Cost Accounting I

3 Credit(s)

Principles and methods of recording and interpreting cost data. Major emphasis on developing accounting information for planning, control, and decision making.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 308 - Managerial Cost Accounting II

3 Credit(s)

Principles and methods of recording and interpreting cost data. Major emphasis on developing accounting information for planning, control, and decision making.

Prerequisite(s):

BUS 307 Minimum Grade: C- OR T

BUS 355 - Individual Income Taxation

4 Credit(s)

This course involves the study of federal income tax on individual and property transactions. Objectives of taxation are given major emphasis. The Internal Revenue Code is discussed in addition to textbook material in order to acquaint the student with the ultimate source of tax law. Income tax return problems and tax cases may be assigned to provide practical application of the tax law.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 358 - Accounting Ethics

3 Credit(s)

Ethics as it applies to the accounting and auditing professions and will be the focus of this course. Emphasis will be on the concept of independence, along with integrity, objectivity, ethical reasoning, and other core values necessary for a high level of professional ethics in the accounting profession.

Prerequisite(s):

BUS 306 Minimum Grade: C- OR T

BUS 360 - Government and Institution Accounting

3 Credit(s)

Study of accounting procedures related to governmental units and nonprofit institutions.

Prerequisite(s):

BUS 305 Minimum Grade: C- OR T

BUS 371 - Payroll Accounting and Taxation

3 Credit(s)

This course is devoted to the principles of payroll computations and administration including creation and maintenance of payroll records as well as proper payroll tax depositing and reporting.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 377 - Agricultural Taxation

3 Credit(s)

This course is devoted to specific income tax laws associated with agricultural business to include farmers and ranchers

both as individuals and as part of taxable entities.

Prerequisite(s):

BUS 355 Minimum Grade: C- OR T

BUS 405 - Advanced Accounting

4 Credit(s)

BUS-405 involves preparation and study of the need for consolidated financial statements. Additionally, it examines accounting problems associated with partnerships and foreign currency transactions.

Prerequisite(s):

BUS 306 Minimum Grade: C- OR T

BUS 407 - Auditing I

3 Credit(s)

Study of ethical standards, auditing standards, audit procedures, and evolution of internal control to learn how financial statements are examined and audit reports prepared in accordance with Generally Accepted Auditing Standards.

Prerequisite(s):

BUS 305 Minimum Grade: C- OR T

AND

BUS 306 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 409 - Fraud Examination

3 Credit(s)

This class will explain how occupational fraud is committed, how fraudulent conduct can be deterred and how allegations of fraud should be investigated and resolved.

Prerequisite(s):

BUS 305 Minimum Grade: C- OR T

BUS 455 - Entity Taxation

4 Credit(s)

Business 455 concentrates on the federal income tax consequences of the formation, normal operation, and the dissolution of corporations, partnerships, and fiduciaries. Other taxation problems of special interest may be covered.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 465 - Estate, Gift, and Fiduciary Tax Law

3 Credit(s)

This course will address the fundamentals of Estate, Gift, and Fiduciary tax law. Topics will include Federal Gift Tax, death transfer tax laws, and fundamentals and reporting returns for estates.

Prerequisite(s):

BUS 455 Minimum Grade: C- OR T

Plus 3 Credits of business or economics courses

Minor in Agribusiness

Go to: Business

A minor in Agribusiness requires 18 hours of agribusiness and/or business, of which 15 hours must be in agribusiness.

Minimum of 15 Hours from the Following

BUS 105 - Introduction to Agribusiness

3 Credit(s)

An introductory course designed to provide students with a basic background in agribusiness issues and practices to give them the foundation to be successful in upper level agribusiness courses and meet expectations for basic knowledge in agribusiness relationships.

BUS 364 - Agribusiness Management

3 Credit(s)

Management issues of agricultural businesses such as the forms of ownership, financial statements, analysis, and planning, investment analysis, strategic marketing, management of organizations, and human resources management.

Prerequisite(s):

BUS 105 Minimum Grade: C- OR T

AND

BUS 207 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

BUS 378 - Commodities/Risk Management

3 Credit(s)

The goal of this course is to provide students with knowledge of risk management for agricultural endeavors as well as

practical knowledge of how the futures and options markets work, how to manage risk involved in agriculture production or operation, and various tools available to manage specific situations. BUS 103 Introduction to Business or instructor consent. BUS 105 Introduction to Agribusiness or instructor consent. BUS 318 Principles of Management or instructor consent.

Prerequisite(s):

BUS 103 Minimum Grade: D OR T
AND

BUS 105 Minimum Grade: D OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 384 - Natural Resources/Water Law

3 Credit(s)

The goal of this course is to provide students with knowledge of the regulatory responsibilities related to agriculture production and operations with respect to natural resources and water. The course will cover federal, state, and local requirements as well as application to agribusiness endeavors.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 211 Minimum Grade: C- OR T

BUS 398 - Farm and Ranch Management

3 Credit(s)

The application of economic and business principles to the management and operation of farms and ranches for decision making purposes.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 207 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

BUS 478 - Agricultural Marketing

3 Credit(s)

An overview of current marketing methods used for agricultural products and services, including value added marketing.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 488 - Agricultural Policy and Farm Bill

3 Credit(s)

Development and implementation of public policy in agriculture, implications of international competition and trade, and development and interpretation of argument in policy development.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

BUS 498 - World Food Distribution/Agricultural Economics

3 Credit(s)

Knowledge and application of economic concepts to the sectors of agriculture including microeconomic and

macroeconomic relationships, world markets, and trade.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Plus 3 Hours of a 300- or 400-level Business Elective

Minor in Business Administration

Go to: Business

Note: A minor in Business Administration is not allowed if a student also has a major in business.

Degree Requirements

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

Plus 6 Hours

from the following (may, but need not, come from the same subgroup):

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND/OR

BUS 307 - Managerial Cost Accounting I

3 Credit(s)

Principles and methods of recording and interpreting cost data. Major emphasis on developing accounting information for planning, control, and decision making.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T
AND/OR

BUS 355 - Individual Income Taxation

4 Credit(s)

This course involves the study of federal income tax on individual and property transactions. Objectives of taxation are given major emphasis. The Internal Revenue Code is discussed in addition to textbook material in order to acquaint the student with the ultimate source of tax law. Income tax return problems and tax cases may be assigned to provide practical application of the tax law.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

AND/OR

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

AND/OR

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 320 - Bus Computer Applications II

3 Credit(s)

The focus of this course is to explore application software on a comprehensive level to gain expertise to support decision-making and manage information. Study includes intermediate Word and Excel applications; intermediate to advanced PowerPoint; intermediate Access, integration of Office applications, and an introduction to HTML and building web pages.

Prerequisite(s):

BUS 120 Minimum Grade: C- OR T

BUS 362 - Human Resource Management

3 Credit(s)

Analysis of techniques used to organize, motivate, and manage personnel in public or private organizations. Includes case studies and examines current literature and the current legal environment..

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

AND

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256
AND

BUS 373 - Investment Analysis

3 Credit(s)

BUS 318 recommended. The course is a study of personal investment planning, traditional and alternative investment vehicles, investment media, investment strategy, and portfolio analysis. The student will become familiar with both money market and capital investment markets as well as strategies for assessing returns and risks of various security instruments.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T
AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

AND

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

Minor in Economics

Go to: Business

Degree Requirements

A minimum 18 credits from the following:

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 307 - Managerial Cost Accounting I

3 Credit(s)

Principles and methods of recording and interpreting cost data. Major emphasis on developing accounting information for planning, control, and decision making.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 320 - Bus Computer Applications II

3 Credit(s)

The focus of this course is to explore application software on a comprehensive level to gain expertise to support decision-making and manage information. Study includes intermediate Word and Excel applications; intermediate to advanced PowerPoint; intermediate Access, integration of Office applications, and an introduction to HTML and building web pages.

Prerequisite(s):

BUS 120 Minimum Grade: C- OR T

BUS 355 - Individual Income Taxation

4 Credit(s)

This course involves the study of federal income tax on individual and property transactions. Objectives of taxation are given major emphasis. The Internal Revenue Code is discussed in addition to textbook material in order to acquaint the student with the ultimate source of tax law. Income tax return problems and tax cases may be assigned to provide practical application of the tax law.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 373 - Investment Analysis

3 Credit(s)

BUS 318 recommended. The course is a study of personal investment planning, traditional and alternative investment vehicles, investment media, investment strategy, and portfolio analysis. The student will become familiar with both money market and capital investment markets as well as strategies for assessing returns and risks of various security instruments.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

BUS 378 - Commodities/Risk Management

3 Credit(s)

The goal of this course is to provide students with knowledge of risk management for agricultural endeavors as well as practical knowledge of how the futures and options markets work, how to manage risk involved in agriculture production or operation, and various tools available to manage specific situations. BUS 103 Introduction to Business or instructor consent. BUS 105 Introduction to Agribusiness or instructor consent. BUS 318 Principles of Management or instructor consent.

Prerequisite(s):

BUS 103 Minimum Grade: D OR T

AND

BUS 105 Minimum Grade: D OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 383 - International Financial Management

3 Credit(s)

A comprehensive study of international financial markets that covers currency exchange mechanisms in theory and practice. In line with the rapid globalization of the economy, the goal of this course is to analyze the international financial environment and how managers function in this increasingly uncertain global environment. The course will focus on three main areas of international finance: international financial environment, exchange rate behavior, and exchange risk management.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 414 - Commercial Banking

3 Credit(s)

Bank Management is an in-depth study of banking institutions, with special emphasis on commercial banks and their connection to the Federal Reserve System and other financial institutions. A risk management perspective is adopted, and the fast changing global regulatory and financial environments are discussed. A Uniform Bank Performance Report will be analyzed.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 416 - Business Financial Problems

3 Credit(s)

Emphasis on financial decision-making within the firm using case studies as the primary activity. Topics include financial goals and strategy, financial analysis and forecasting, capital budgeting, capital structure decisions, dividend policy, and firm valuation.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

ECON 425 - Economic Policy

3 Credit(s)

Study of the structure and functions of the U.S. economic system and the use of monetary, fiscal, and other policies to stabilize the economy. Emphasis on historical roots and the evolution into new behavioral economic ideas as well as the complex interplay of policy and economic forces.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

ECON 433 - Managerial Economics

3 Credit(s)

Application and integration of microeconomic theory and the tools of decision science to managerial decision-making. Particular emphasis placed on the economic differences caused by monopolies, cartels, and multi-national organizations and their domination of many industries. Understanding of game theory and new economic analysis tools.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

HCA 455 - Health Care Economics

3 Credit(s)

This course will examine health care decision-making and the functioning of health care markets in the U.S. The course is not designed as a pure economics theory course but instead emphasizes how you can frame and analyze various health issues using the principles of economics. By doing so, you will gain a powerful new perspective that will help you understand the decisions made by individuals and organizations in the face of scarce resources. Instructor permission.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

BUS 466 - Business Ethics Decision Making

3 Credit(s)

This course explores various ethical issues facing business leaders in modern society. Students will utilize current issues to analyze ethical dilemmas and decision-making processes common to modern organizations. Emphasizes critical thinking, critical reading, and the importance of professional ethics.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 498 - World Food Distribution/Agricultural Economics

3 Credit(s)

Knowledge and application of economic concepts to the sectors of agriculture including microeconomic and macroeconomic relationships, world markets, and trade.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Plus 3 Hours of a 300- or 400-level Business Elective

Minor in Finance

Go to: Business

Degree Requirements

A minor in finance requires 18 hours in business and/or economics, of which a minimum of 15 must be in finance.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 367 - Financial Analysis

3 Credit(s)

Examination of techniques for analyzing, understanding, and applying financial information in decision situations. Topics start with financial statement analysis, development of financial models, financial forecasting, cost of capital estimation, and ends with company valuation. In addition, there will be a "hands on" project to provide students with experience in analyzing and understanding a corporate annual report using EXCEL spread sheet analysis.

Prerequisite(s):

BUS 320 Minimum Grade: C- OR T
AND

BUS 363 Minimum Grade: C- OR T

BUS 368 - Financial Institutions

3 Credit(s)

The course focuses on managing return and risk in modern financial institutions. It examines the financial services industry risk of financial intermediation, measurement of interest rate risk, credit and market risk, individual loan and liquidity risks, as well as off-balance sheet and sovereign risks. The course covers management of assets and liabilities, capital adequacy and depository insurance. Futures, forwards, options, caps, floors, collars, swaps and securitization will be also covered.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 373 - Investment Analysis

3 Credit(s)

BUS 318 recommended. The course is a study of personal investment planning, traditional and alternative investment vehicles, investment media, investment strategy, and portfolio analysis. The student will become familiar with both money market and capital investment markets as well as strategies for assessing returns and risks of various security instruments.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T
AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

BUS 383 - International Financial Management

3 Credit(s)

A comprehensive study of international financial markets that covers currency exchange mechanisms in theory and practice. In line with the rapid globalization of the economy, the goal of this course is to analyze the international financial environment and how managers function in this increasingly uncertain global environment. The course will focus on three main areas of international finance: international financial environment, exchange rate behavior, and exchange risk management.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 414 - Commercial Banking

3 Credit(s)

Bank Management is an in-depth study of banking institutions, with special emphasis on commercial banks and their connection to the Federal Reserve System and other financial institutions. A risk management perspective is adopted, and the fast changing global regulatory and financial environments are discussed. A Uniform Bank Performance Report will be analyzed.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 416 - Business Financial Problems

3 Credit(s)

Emphasis on financial decision-making within the firm using case studies as the primary activity. Topics include financial goals and strategy, financial analysis and forecasting, capital budgeting, capital structure decisions, dividend policy, and firm valuation.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 426 - Money and Capital Markets

3 Credit(s)

Discussion of how financial markets are organized, their role in the allocation of funds to various market segments, and the interaction between financial markets. Topics include aggregate flow of funds analysis, an overview of financial markets, securities markets (money, bond, mortgage, stock, foreign exchange, derivative securities), as well as commercial banks, insurance and securities companies, mutual and pension funds markets. This course also covers financial markets risks and regulations.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 431 - Tech Analysis of Stock Trends

3 Credit(s)

Advanced studies in technical market analysis and trading, money management, investor psychology and analysis elements are considered. The Focus will be on the study of price action in trading markets, patterns and trends, price behavior of financial securities, trading tactics, and construction of a trading or investment model. The course will help students prepare for the Chartered Market Technician (CMT) designation.

Prerequisite(s):

BUS 373 Minimum Grade: C- OR T

BUS 432 - Series 7 General Securities Exam Review

3 Credit(s)

The Series 7 License Exam Review course is designed to prepare the student to take the National Association of Securities Dealers General Securities Representative Exam. After passing the Series 7 License exam the candidate can

be licensed to sell various types of securities.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T
AND

BUS 373 Minimum Grade: C- OR T

- BUS/ECON 300/400 Elective **3 Credit(s)**

Minor in Health Care Administration

Go to: Business

Degree Requirements

A minor in Health Care Administration requires five of the following courses, plus three elective credit hours in business, economics, or nursing, for a total of 18 credit hours.

Completion of 5 of the Following (15 Credits)

HCA 303 - Trends and Issues in Health Care

3 Credit(s)

This course is an introductory Health Care Administration course and will expose the student to the industry and its significant elements and trends of the current health care environment.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

HCA 305 - Health Care Marketing

3 Credit(s)

This course involves an analysis, evaluation, and implementation of marketing strategies within health care and managed-care environments. Designed to develop skills in segmenting customer and medical markets, brand products and services, enhance a communication strategy to the consumer, and develop pricing approaches. Methods and models of marketing fundamentals will be introduced.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

HCA 311 - Health Care Law and Ethics

3 Credit(s)

This course presents an overview of the legal and ethical issues faced by health care consumers, practitioners, and administrators. The course will introduce students to the legal aspects of health care at the federal, state, and local levels. Topics covered will include criminal and civil claims against health care providers, corporate and individual liability, and legal and ethical decision-making, individual liability, and legal and ethical decision-making. HCA 361 Health Care Administration. Instructor permission.

Prerequisite(s):

BUS 211 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

HCA 312 - Health Care Med Terminology

3 Credit(s)

This course will focus on the components of medical terms and the methods for analysis of word definitions. The emphasis will be on learning to define, pronounce, and spell medical terms using prefixes, suffixes, roots, and combining forms related to the anatomy and physiology of the human body. The course will include an introduction to operative, diagnostic, therapeutic, and symptomatic terminology of all body systems.

HCA 325 - Health Care Informatics

3 Credit(s)

This course is a study of record keeping practices in the hospital and physician's office. Emphasis is placed in hospital and medical staff organization, patient record content, procedures in filing, numbering and retention of patient records, quantitative analysis, release of patient information, forms control and design, indexes and registers, reimbursement, regulatory and accrediting agencies, and alternate health care delivery systems. Instructor permission required.

Prerequisite(s):

BUS 120 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

HCA 363 - Health Care Finance

3 Credit(s)

This course is devoted to the practical aspects of finance in health care, an examination of current practices in financial management of health care organizations, and managerial applications to specific problems facing health care managers. The first part of the course will focus on an overview of health care finance, managerial accounting, and financial analysis. The second part will continue with managerial accounting and financial analysis and will concentrate on the various tools used in financial management. Emphasis is placed on unique issues and concerns that result from the regulatory framework of health care organizations. At the conclusion of this course, the student should be able to discuss the financial structure, market forces, controls and techniques used in the health care management field, be able to read and analyze financial statements and budgets and have the skill to interpret financial and operating performance.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

HCA 381 - Health Care Admin Internship

3 Credit(s)

The Health Administration Internship provides the students the opportunity to gain practical experience and integrate classroom knowledge and theory in an administrative setting within the health care industry.

Prerequisite(s):

HCA 303 Minimum Grade: C- OR T

HCA 402 - Public and Population Health

3 Credit(s)

This course consists of an examination of epidemiological concepts and methods of studying the distribution and determinants of morbidity and mortality in human population. The knowledge and skills acquired should enable one to understand and critically review scientific literature dealing with epidemiology concepts and measures. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 455 - Health Care Economics

3 Credit(s)

This course will examine health care decision-making and the functioning of health care markets in the U.S. The course is not designed as a pure economics theory course but instead emphasizes how you can frame and analyze various health issues using the principles of economics. By doing so, you will gain a powerful new perspective that will help you understand the decisions made by individuals and organizations in the face of scarce resources. Instructor permission.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 462 - Quality Management in Health Care

3 Credit(s)

Quality is an important aspect of health care; indeed, for most people, it is the most important aspect. Quality is defined in the dictionary as "degree of excellence" or "superiority in kind." Quality of care must be part of both the process and outcome of health care whenever possible. The issue is how does the system develop mechanisms to assure such quality? This course serves as an introduction to the process of quality management in health care organizations. Principles of total quality in health care will be discussed. Differentiation between quality assurance and quality management will also be presented. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

HCA 480 - Health Care Policy

3 Credit(s)

This course is an introduction to health policy. It will focus on how U.S. health policy is developed and will provide students with a general understanding of the policy making process and debates related major U.S. health care legislations.

Prerequisite(s):

HCA 303 Minimum Grade: C- OR T
AND

HCA 305 Minimum Grade: C- OR T

AND

HCA 363 Minimum Grade: C- OR T

Plus One of the Following (3 Credits)

- BUS/ECON/NURS, 300-400 level course

Minor in International Business

Go to: Business

Degree Requirements

Minimum of 15 Hours from the Following

BUS 335 - Consumer Behavior

3 Credit(s)

Study of consumer behavior as it relates to the marketing functions. Emphasis on the models of consumer behavior and their application to practical marketing problems.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 383 - International Financial Management

3 Credit(s)

A comprehensive study of international financial markets that covers currency exchange mechanisms in theory and practice. In line with the rapid globalization of the economy, the goal of this course is to analyze the international financial environment and how managers function in this increasingly uncertain global environment. The course will focus on three main areas of international finance: international financial environment, exchange rate behavior, and exchange risk management.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

ECON 425 - Economic Policy

3 Credit(s)

Study of the structure and functions of the U.S. economic system and the use of monetary, fiscal, and other policies to stabilize the economy. Emphasis on historical roots and the evolution into new behavioral economic ideas as well as the complex interplay of policy and economic forces.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

BUS 498 - World Food Distribution/Agricultural Economics

3 Credit(s)

Knowledge and application of economic concepts to the sectors of agriculture including microeconomic and macroeconomic relationships, world markets, and trade.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

BUS 441 - International Marketing

3 Credit(s)

Analysis of opportunities, distinctive characteristics, and emerging trends in foreign markets, including exploration of alternative methods and strategies for entering foreign markets; organizational planning and control; impact of social, cultural, economic, and political differences; and problems of adapting American marketing concepts and methods. This is accomplished through real life planning and implementation of an international marketing plan designed to market a product or service in a foreign country or countries

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

Plus a 3-hour Course

from political science, history or languages in consultation with advisor

Minor in Management

Go to: Business

Degree Requirements

A minor in management requires 18 hours in business and/or economics, of which a minimum of 15 must be in management.

Minimum of 15 Hours from the Following

BUS 315 - Sales and Sales Management

3 Credit(s)

This course is designed to introduce students to management techniques as they relate specifically to the marketing and

sales area. Topics covered include: the selling process, compensation systems, motivation and leadership, time and territory management, sales forecasting, quotas, and evaluating the sales force.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 362 - Human Resource Management

3 Credit(s)

Analysis of techniques used to organize, motivate, and manage personnel in public or private organizations. Includes case studies and examines current literature and the current legal environment..

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

BUS 401 - Organizational Behavior

3 Credit(s)

Participants in the course will explore the theory of human relations in organizations. The emphasis will be on the application of behavioral science knowledge to contemporary organizational issues, which may include individual and group dynamics, motivation, leadership, organizational change, and development.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 418 - Leadership Strategies

3 Credit(s)

This course presents contemporary theories and approaches to leadership practices in modern organizations. Students learn how effective leadership can assist in the creation of a strong organizational culture and the implications external forces have on individual leadership development and continued growth.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 419 - Organizational Change/Develop

3 Credit(s)

The study of planned and unplanned change in organizations to include diagnosis, planning, and implementation of organizational change initiatives. Emphasis is on teamwork within organizations and survey development.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 466 - Business Ethics Decision Making

3 Credit(s)

This course explores various ethical issues facing business leaders in modern society. Students will utilize current issues to analyze ethical dilemmas and decision-making processes common to modern organizations. Emphasizes critical thinking, critical reading, and the importance of professional ethics.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 467 - Creativity and Innovation

3 Credit(s)

Course objectives are to develop skills in generating new and original ideas, increase ability to convert ideas into action and success, and increase knowledge and skill in creative problem solving as applied to business scenarios.

Prerequisite(s):

BUS 361 Minimum Grade: C-

BUS 468 - New Business Venturing

3 Credit(s)

This course introduces students to starting and operating a business. Students will be exposed to how business interacts

with government, financial institutions, and society. This course will examine and study the process, challenges, risks, and rewards of starting up a new business. The student will be equipped with tools required to start their own business.

Prerequisite(s):

BUS 365 Minimum Grade: C-

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Plus 3 Hours of Business or Economics Courses, 300-400 Level

Minor in Marketing

Go to: Business

Degree Requirements

Minimum of 15 credit hours from the following:

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 315 - Sales and Sales Management

3 Credit(s)

This course is designed to introduce students to management techniques as they relate specifically to the marketing and sales area. Topics covered include: the selling process, compensation systems, motivation and leadership, time and territory management, sales forecasting, quotas, and evaluating the sales force.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 335 - Consumer Behavior

3 Credit(s)

Study of consumer behavior as it relates to the marketing functions. Emphasis on the models of consumer behavior and their application to practical marketing problems.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 345 - Advertising

3 Credit(s)

Discusses the history, purposes, and regulations of the advertising industry. Topics covered include creative principles, media advantages and disadvantages, media planning, regulation of advertising, and coordination with other promotion activities.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 356 - Retailing

3 Credit(s)

Study of marketing and management problems faced in the operation of a retail business. Emphasis is given to techniques for solving problems in location, management, and merchandising, especially with the integration of Internet retailing (E-Tailing) as both a competitor and an extension of the storefront business.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 385 - Sports Marketing

3 Credit(s)

Illustrates the dynamic, progressive and influential nature of sports marketing. Explores the sport marketing concept as a consumer-driven, integrated, goal-oriented philosophy for a team, event, organization or athlete. Topics covered include: athletic endorsements, team sports, event sponsorships and alternative sports.

BUS 441 - International Marketing

3 Credit(s)

Analysis of opportunities, distinctive characteristics, and emerging trends in foreign markets, including exploration of alternative methods and strategies for entering foreign markets; organizational planning and control; impact of social, cultural, economic, and political differences; and problems of adapting American marketing concepts and methods. This is accomplished through real life planning and implementation of an international marketing plan designed to market a product or service in a foreign country or countries

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 448 - Interactive/Social Media Marketing

3 Credit(s)

This course focuses on relationship marketing, interactive marketing, integration of consumer data, Internet marketing (E-commerce), media advertising, catalogs, mailing lists, telemarketing, and the use of direct marketing techniques to replace or enhance the traditional marketing methods of retail and direct sales.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 449 - Marketing in the 21st Century

3 Credit(s)

This course provides the practical tools and strategies required to successfully leverage social networks, capitalize on their powerful word-of-mouth lift, and how to measure these interactive marketing efforts. These tools will be used on an actual social media marketing campaign for a business or non-profit entity. Current and future marketing tools will be discussed and evaluated.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

AND

BUS 448 Minimum Grade: C- OR T

BUS 454 - Market Research & Information

3 Credit(s)

Study of the theory and methods used in marketing research to address marketing problems. May include the

completion of a research project where students learn by performing a research project from problem formulation to writing a research report. Also prepares the students for evaluating research performed by others.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 460 - Marketing Management

3 Credit(s)

Twelve hours of marketing courses and senior status required. Capstone course in marketing. Study of the problems faced by marketing managers as they make decisions and develop policies.

Prerequisite(s):

BUS 454 Minimum Grade: C- OR T

HCA 305 - Health Care Marketing

3 Credit(s)

This course involves an analysis, evaluation, and implementation of marketing strategies within health care and managed-care environments. Designed to develop skills in segmenting customer and medical markets, brand products and services, enhance a communication strategy to the consumer, and develop pricing approaches. Methods and models of marketing fundamentals will be introduced.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

Plus 3 Credit Hours of Business or Economics Courses, 300-400 Level

Minor in Music Business

Go to: Business

Go to: Music

Degree Requirements

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both

defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

Optional class

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 362 - Human Resource Management

3 Credit(s)

Analysis of techniques used to organize, motivate, and manage personnel in public or private organizations. Includes case studies and examines current literature and the current legal environment..

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 401 - Organizational Behavior

3 Credit(s)

Participants in the course will explore the theory of human relations in organizations. The emphasis will be on the application of behavioral science knowledge to contemporary organizational issues, which may include individual and group dynamics, motivation, leadership, organizational change, and development.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

Minor in Taxation

Go to: Business

Degree Requirements

A minor in Taxation requires a minimum of 18 hours from the list below, completed with a grade of C- or T or better.

A Minimum 18 Credits from the Following

BUS 355 - Individual Income Taxation

4 Credit(s)

This course involves the study of federal income tax on individual and property transactions. Objectives of taxation are given major emphasis. The Internal Revenue Code is discussed in addition to textbook material in order to acquaint the student with the ultimate source of tax law. Income tax return problems and tax cases may be assigned to provide practical application of the tax law.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 358 - Accounting Ethics

3 Credit(s)

Ethics as it applies to the accounting and auditing professions and will be the focus of this course. Emphasis will be on the concept of independence, along with integrity, objectivity, ethical reasoning, and other core values necessary for a high level of professional ethics in the accounting profession.

Prerequisite(s):

BUS 306 Minimum Grade: C- OR T

BUS 371 - Payroll Accounting and Taxation

3 Credit(s)

This course is devoted to the principles of payroll computations and administration including creation and maintenance of payroll records as well as proper payroll tax depositing and reporting.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 377 - Agricultural Taxation

3 Credit(s)

This course is devoted to specific income tax laws associated with agricultural business to include farmers and ranchers both as individuals and as part of taxable entities.

Prerequisite(s):

BUS 355 Minimum Grade: C- OR T

BUS 455 - Entity Taxation

4 Credit(s)

Business 455 concentrates on the federal income tax consequences of the formation, normal operation, and the dissolution of corporations, partnerships, and fiduciaries. Other taxation problems of special interest may be covered.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 465 - Estate, Gift, and Fiduciary Tax Law

3 Credit(s)

This course will address the fundamentals of Estate, Gift, and Fiduciary tax law. Topics will include Federal Gift Tax, death transfer tax laws, and fundamentals and reporting returns for estates.

Prerequisite(s):

BUS 455 Minimum Grade: C- OR T

BUS 381 - Business Internship

1 to 3 Credit(s)

Junior standing and approval of the department chair required. The internships are planned, meaningful work experiences that are academic in nature. Supervision consists of a site supervisor who is a qualified professional in the business or organization where the internship is arranged and a faculty sponsor who is a full-time professor in the School of Business, usually from the student's major. The site supervisor evaluates the work performed by the student on the job. The faculty sponsor is responsible for maintenance of academic quality and assigns the course grade. (30 contact hours=1 credit hour)

OR

BUS 481 - Business Internship II

1 to 3 Credit(s)

Senior standing and approval of the Department Chair required. The internships are planned, meaningful work experiences that are academic in nature. Supervision consists of a site supervisor who is a qualified professional in the business or organization where the internship is arranged and a faculty sponsor who is a full-time professor in the School of Business, usually from the student's major. The site supervisor evaluates the work performed by the student on the job. The faculty sponsor is responsible for maintenance of academic quality and assigns the course grade (30 contact hours=1 credit hour).

BUS 179 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

OR

BUS 379 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

Note

*The internship placement must be approved by accounting faculty.

**A maximum of 3 credit hours may be applied to the Taxation minor.

School of Counselor Education

The School of Counselor Education offers a doctoral degree in counselor education and supervision and master's programs in both clinical mental health counseling and school counseling. All programs are accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP).

For information on specific programs, go to: Counseling and Counselor Education

Faculty

Director

- Dr. Cheri Meder

Assistant Directors

- Dr. Laura Bruneau
- Dr. Jared Thiemann

Clinical Mental Health Counseling Program

- Dr. Christina Harrell, Chair

Curriculum and Assessment

- Dr. Neil Rigsbee, Chair

School Counseling Program

- Professor Colleen Stabolepszy, Chair

Curriculum and Assessment

- Dr. Carol Cotter, Coordinator

Ph.D. Program

- Dr. Karli Iceman, Coordinator

Specialty Program

- Dr. Sandra Gavin, Coordinator

Professors

- Courtney Allen, Ph.D.

- Laura Bruneau, Ph.D.
- Mark Manzanares, Ph.D.
- Cheri Meder, Ph.D.
- Neil Rigsbee, Ph.D.

Associate Professors

- Jared Thiemann, Ph.D.

Assistant Professors

- Sandra Gavin, Ph.D.
- Christina Harrell, Ph.D.
- Karli Iceman, Ph.D.

Clinical Faculty (NTT)

- Bethany Adams, Ph.D.
- Rebecca Caple, Ph.D.
- Carol Cotter, Ph.D.
- Janessa Henninger, Ph.D.
- Mark Vander Ley, Ph.D.
- Steve Moody, Ph.D.
- Melissa O'Neil, Ph.D.
- Katrina Ruggles, Ph.D.
- Penny Sanders, Ed.D.
- Kelsey Scanlan, Ph.D.
- Julie Silipo, Ph.D.
- Colleen Stabolepszy, M.A.
- Madeleine Stevens, Ph.D.
- Jessica Stuart, Ph.D.
- Sonja Sutherland, Ph.D.
- Kirk Thiemann, Ph.D.
- Ben Wilson, Ph.D.
- Melissa O'Neill, Ph.D.

Unless specified otherwise, the rank of associate professor implies tenured status. "NTT" indicates "non-tenure track."

Counseling and Counselor Education

- Return to the School of Counselor Education

The Counseling and Counselor Education programs offer a doctoral degree in counselor education and supervision and master's programs in clinical mental health counseling and school counseling. All programs are accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP) in all delivery models used at Adams State University.

The Master of Arts degree in Counseling is a 60-credit-hour program with areas of emphasis in school counseling or clinical mental health counseling. The clinical mental health counseling program meets state academic requirements for those seeking Licensed Professional Counselor (LPC) status in Colorado. The school counseling program meets the academic requirements for those seeking the Colorado K-12 school counselor licensure.

The doctoral program in Counselor Education and Supervision is a 60 credit-hour program that prepares graduates to work as counselor educators, supervisors, researchers, leaders, and advocates within the counseling profession.

All programs focus on the needs of students from diverse ethnic and socioeconomic backgrounds and provide an excellent educational experience by creating a supportive and challenging environment that integrates personal and professional growth for students. Through the use of research and applied experiential learning, students will develop a solid knowledge base, comprehensive skills, and an ability to self-challenge. The programs develop competent counselors who are proactive, ethical, and capable of recognizing and affirming the diversity of people, ideas, and values. They will be persons of integrity who will be advocates for individual and societal growth. They will have the sensitivity, flexibility, and knowledge to serve the needs of diverse populations. They will be capable of developing collaborative relationships with community agencies, organizations, public schools, and families in rural and urban centers.

Faculty in the School of Counselor Education

Course List

All Counseling and Counselor Education Courses

Master of Arts in Counseling, Clinical Mental Health Counseling Emphasis

- Go to: Counseling and Counselor Education

Master of Arts in Counseling

The Master of Arts in Counseling is offered in an online delivery modality. This program is designed to meet the educational needs of those students who are not within driving distance of a counseling program or whose work schedule will not allow physical attendance. The online program offers the same course content as the other accredited programs Adams State University offers, only in an online format. Students in the online program will spend one week on the Adams State campus during the two consecutive weeks in the program. During these weeks, students will interact with the faculty on campus and further develop their counseling and interpersonal skills, form learning groups, become acquainted with the program and its expectations, and receive tutoring, advising, and intensive supervision.

Core Requirements for the Master of Arts in Counseling

The degree programs in school and clinical mental health counseling require a minimum of 60 semester hours as described below. However, the order of the course offering is subject to change.

COUN 503 - Introduction to Research

3 Credit(s)

An introductory course to help students develop an understanding of the importance of research; overview basic elements of quantitative, qualitative, and action research ;methods, enhance skills to evaluate and critique research and literature; and gain an appreciation for conducting research.

COUN 515 - Multicultural and Diversity Issues

3 Credit(s)

This course is designed to assist students in understanding the impact of social/cultural forces upon identity development and formation. Students will explore various components of our pluralistic society and how oppressive systems can exclude and harm individuals. Change theory and advocacy principles will be introduced to aid students in dealing with these issues in their communities and with clients.

COUN 517 - Life Span Development

3 Credit(s)

This course is designed to provide an understanding of major influences of human development. Presentation of various developmental theories enable the student to understand the stages of the developmental process that include conception, childhood, adolescence, adulthood, aging process, and death and dying. Students will develop an appreciation and awareness of the complexity of human growth and development.

COUN 524 - Counseling Theories and Helping Relationships

3 Credit(s)

This course presents the major schools of thought influencing the practice of counseling. The relationship of philosophy, theory, and practice will be a primary focus. Students will understand the historical foundations of counseling and the beginnings of their own personal foundation of counseling.

COUN 527 - Group Counseling

3 Credit(s)

This course explores leadership styles, group dynamics, and group process necessary to run successful groups. The major group counseling theories will be explored, and group skills will be practiced. The course requires that students gain experience as both a growth group participant and as a co-leader.

Co-requisite(s): COUN 527L

COUN 527L - Group Counseling Lab

0 Credit(s)

Students are required to take COUN-527L Group Counseling Lab along with their COUN 527 course. The COUN-527L to engage in personal and professional growth as a group counselor in training while demonstrating self-awareness and professional behaviors required of counselors in training specifically in leading and engaging in Group activities. Students will experience the group process as both a group member and group leader while receiving individual/group supervision from program faculty.

Co-requisite(s): COUN 527

COUN 528 - Career Development

3 Credit(s)

This course provides students an understanding of the career planning process. Key career development theories will be examined and applied. The counseling process, the world of work, and career information resources, including computerized career assessment, will be examined in relation to career interventions.

COUN 530 - Couples/Family/Systems

3 Credit(s)

This course provides counseling students with the theoretical background and therapeutic skills necessary for therapeutic intervention in families, couples, and systems. Students will examine systems theory as it relates to families and couples and develop knowledge and skill pertaining to family-of-origin issues, addictions, parenting, and professional consultation.

COUN 536 - Pre-Practicum

3 Credit(s)

This course provides students an introduction to the counseling profession and helping relationships. The course will emphasize personal growth, self-awareness, and professional behavior. Students will experience the helping relationship as both client and counselor.

Co-requisite(s): COUN 536L

COUN 536L - Pre-Practicum Lab

0 Credit(s)

Students are required to take COUN-536L Pre-Practicum Lab along with their COUN 536 course. The COUN-536L is to engage in personal and professional growth as a counselor in training while demonstrating self-awareness and professional behaviors required of counselors in training. Students will experience the helping relationship as both client and counselor and receive individual/group supervision from program faculty.

Co-requisite(s): COUN 536

COUN 537 - Practicum

3 Credit(s)

Practicum is a clinical, experiential course that requires students to complete hours in a professional setting. The student will apply counseling techniques and skills in a supervised setting. The student will participate in the counseling process, refine techniques, and further enhance his/her therapeutic development.

Co-requisite(s): COUN 537L

COUN 537L - Practicum Lab

0 Credit(s)

Students are required to take COUN-537L Practicum Lab along with their COUN 537 course. The COUN-537L is to engage in personal and professional growth as a counselor in training while demonstrating self-awareness and professional behaviors required of counselors in training. Students will experience the helping relationship as both client and counselor and receive individual/group supervision from program faculty.

Co-requisite(s): COUN 537

COUN 538 - Crisis, Disaster, and Trauma

3 Credit(s)

This course focuses on knowledge of the many types of intervention used to address a range of crises. We will explore definitions of crisis, crisis theory, and models applied to specific crisis situations. The characteristics of effective crisis workers will be examined. Emergency services, school crisis teams, crisis hotlines, and other crisis response units will be discussed. Various activities will be used to practice the skills learned.

COUN 546 - Assessment in Counseling

3 Credit(s)

This course provides students with an understanding of individual and group approaches to assessment and evaluation. Students will learn various assessment and appraisal techniques with emphasis on multicultural and diversity, ethical, and legal issues.

COUN 549 - Foundations Addict Counseling

3 Credit(s)

This course provides counselors in training with an overview of the addictive process and the practice of addiction counseling. Models and theories of addiction along with professional issues in addiction counseling, co-occurring disorders, such as process addictions will be addressed. Students will demonstrate conceptual knowledge, practical skills, and self-awareness concerning the etiology of addiction and its impact across the life-span, including criminology, neurological and societal implications. Assessment, diagnosis, and treatment of addictions with diversity and advocacy issues also being explored.

COUN 550 - Ethics and Professional Issues

3 Credit(s)

This course focuses on the ethical standards that govern the counseling profession. Current legislation and court decisions affecting professional behavior are examined. Particular emphasis is placed on the individual counselor's development of a professional identity within legal and ethical parameters.

Completion of the Requirements for the Clinical Mental Health Counseling Emphasis

COUN 542 - Diagnosis and Psychopathology

3 Credit(s)

The evolution of the DSM, its organization, and use will be explored. The student will develop an understanding of the process of diagnosis and the classification of mental disorders. The etiology and treatment of psychological disorders will be reviewed. Clinical writing skills will be practiced.

COUN 554 - Counseling Modalities for Clinical Mental Health

3 Credit(s)

This course focuses on applying the skills, interventions and modalities learned in the counseling courses to the Clinical Mental Health setting. Emphasis will be on learning to use evidence-based practices, working with clients with co-occurring diagnoses, and collaborating with multi-disciplinary teams.

COUN 555 - Clinical Mental Health Counseling

3 Credit(s)

This course focuses on issues in clinical mental health counseling including professionalism, roles and responsibilities, leadership, and management issues. The roles, responsibilities, and functions of the clinical mental health counselor will be discussed, showing the interrelatedness of community mental health counseling and other therapeutic professions (e.g., hospitals, law enforcement, and human services). In addition, the theoretical and historical framework within which the clinical mental health counselor has functioned in the past, the present, and the future will be explored.

COUN 585 - Internship I Clinical Mental Health

3 Credit(s)

Students will utilize knowledge and skills gained in coursework and the practicum experience in a supervised counseling setting. Students will receive supervision, increase knowledge of the profession, increase skill base, and continue the process of self-exploration, and self-awareness.

Prerequisite(s):

COUN 537 Minimum Grade: B

AND

COUN 555 Minimum Grade: C

COUN 595 - Internship II Clinical Mental Health

3 Credit(s)

A continuation of Internship I, students will complete their supervised on-site experience, expand their acquired skills, and receive further supervision.

Prerequisite(s):

COUN 585 Minimum Grade: C

Plus 6 Elective Credits

Master of Arts in Counseling, School Counseling Emphasis

Go to: Counseling and Counselor Education

Master of Arts in Counseling

The Master of Arts in Counseling is offered in an online delivery modality. This program is designed to meet the educational needs of those students who are not within driving distance of a counseling program or whose work schedule will not allow physical attendance. The online program offers the same course content as the other accredited programs Adams State University offers, only in an online format. Students in the online program will spend one week on the Adams State campus during the two consecutive weeks in the program. During these weeks, students will interact with the faculty on campus and further develop their counseling and interpersonal skills, form learning groups, become acquainted with the program and its expectations, and receive tutoring, advising, and intensive supervision.

Core Requirements for the Master of Arts in Counseling

The degree programs in school and clinical mental health counseling require a minimum of 60 semester hours as described below. However, the order of the course offering is subject to change.

COUN 503 - Introduction to Research

3 Credit(s)

An introductory course to help students develop an understanding of the importance of research; overview basic elements of quantitative, qualitative, and action research ;methods, enhance skills to evaluate and critique research and literature; and gain an appreciation for conducting research.

COUN 515 - Multicultural and Diversity Issues

3 Credit(s)

This course is designed to assist students in understanding the impact of social/cultural forces upon identity development and formation. Students will explore various components of our pluralistic society and how oppressive systems can exclude and harm individuals. Change theory and advocacy principles will be introduced to aid students in dealing with these issues in their communities and with clients.

COUN 517 - Life Span Development

3 Credit(s)

This course is designed to provide an understanding of major influences of human development. Presentation of various developmental theories enable the student to understand the stages of the developmental process that include conception, childhood, adolescence, adulthood, aging process, and death and dying. Students will develop an appreciation and awareness of the complexity of human growth and development.

COUN 524 - Counseling Theories and Helping Relationships

3 Credit(s)

This course presents the major schools of thought influencing the practice of counseling. The relationship of philosophy, theory, and practice will be a primary focus. Students will understand the historical foundations of counseling and the beginnings of their own personal foundation of counseling.

COUN 527 - Group Counseling

3 Credit(s)

This course explores leadership styles, group dynamics, and group process necessary to run successful groups. The major group counseling theories will be explored, and group skills will be practiced. The course requires that students gain experience as both a growth group participant and as a co-leader.

Co-requisite(s): COUN 527L

COUN 527L - Group Counseling Lab

0 Credit(s)

Students are required to take COUN-527L Group Counseling Lab along with their COUN 527 course. The COUN-527L to engage in personal and professional growth as a group counselor in training while demonstrating self-awareness and professional behaviors required of counselors in training specifically in leading and engaging in Group activities. Students will experience the group process as both a group member and group leader while receiving individual/group supervision from program faculty.

Co-requisite(s): COUN 527

COUN 528 - Career Development

3 Credit(s)

This course provides students an understanding of the career planning process. Key career development theories will be examined and applied. The counseling process, the world of work, and career information resources, including computerized career assessment, will be examined in relation to career interventions.

COUN 530 - Couples/Family/Systems

3 Credit(s)

This course provides counseling students with the theoretical background and therapeutic skills necessary for therapeutic intervention in families, couples, and systems. Students will examine systems theory as it relates to families and couples and develop knowledge and skill pertaining to family-of-origin issues, addictions, parenting, and professional consultation.

COUN 536 - Pre-Practicum

3 Credit(s)

This course provides students an introduction to the counseling profession and helping relationships. The course will emphasize personal growth, self-awareness, and professional behavior. Students will experience the helping relationship as both client and counselor.

Co-requisite(s): COUN 536L

COUN 536L - Pre-Practicum Lab

0 Credit(s)

Students are required to take COUN-536L Pre-Practicum Lab along with their COUN 536 course. The COUN-536L is to engage in personal and professional growth as a counselor in training while demonstrating self-awareness and professional behaviors required of counselors in training. Students will experience the helping relationship as both client and counselor and receive individual/group supervision from program faculty.

Co-requisite(s): COUN 536

COUN 537 - Practicum

3 Credit(s)

Practicum is a clinical, experiential course that requires students to complete hours in a professional setting. The student will apply counseling techniques and skills in a supervised setting. The student will participate in the counseling process, refine techniques, and further enhance his/her therapeutic development.

Co-requisite(s): COUN 537L

COUN 537L - Practicum Lab

0 Credit(s)

Students are required to take COUN-537L Practicum Lab along with their COUN 537 course. The COUN-537L is to engage in personal and professional growth as a counselor in training while demonstrating self-awareness and professional behaviors required of counselors in training. Students will experience the helping relationship as both client and counselor and receive individual/group supervision from program faculty.

Co-requisite(s): COUN 537

COUN 538 - Crisis, Disaster, and Trauma

3 Credit(s)

This course focuses on knowledge of the many types of intervention used to address a range of crises. We will explore definitions of crisis, crisis theory, and models applied to specific crisis situations. The characteristics of effective crisis workers will be examined. Emergency services, school crisis teams, crisis hotlines, and other crisis response units will be discussed. Various activities will be used to practice the skills learned.

COUN 546 - Assessment in Counseling

3 Credit(s)

This course provides students with an understanding of individual and group approaches to assessment and evaluation. Students will learn various assessment and appraisal techniques with emphasis on multicultural and diversity, ethical, and legal issues.

COUN 549 - Foundations Addict Counseling

3 Credit(s)

This course provides counselors in training with an overview of the addictive process and the practice of addiction counseling. Models and theories of addiction along with professional issues in addiction counseling, co-occurring

disorders, such as process addictions will be addressed. Students will demonstrate conceptual knowledge, practical skills, and self-awareness concerning the etiology of addiction and its impact across the life-span, including criminology, neurological and societal implications. Assessment, diagnosis, and treatment of addictions with diversity and advocacy issues also being explored.

COUN 550 - Ethics and Professional Issues

3 Credit(s)

This course focuses on the ethical standards that govern the counseling profession. Current legislation and court decisions affecting professional behavior are examined. Particular emphasis is placed on the individual counselor's development of a professional identity within legal and ethical parameters.

Completion of requirements for the School Counseling Emphasis

COUN 534 - Counseling Modalities in a School Setting

3 Credit(s)

This course focuses on applying the skills interventions and modalities learned in the counseling courses to the school setting. Emphasis will be on learning to use evidence-based practices to help K-12 students function more effectively in the academic, personal/social, and career domains.

COUN 540 - Foundations of School Counseling

3 Credit(s)

This course provides an introduction to professional school counseling, including historical perspectives, theory, practice, employment settings, credentialing, legislation, research, and ethical considerations.

COUN 541 - Comprehensive School Counseling

3 Credit(s)

This course offers an in-depth exploration of current professional school counseling. Students will understand the skills needed in counseling, consulting, advocacy, and collaboration to promote academic success for all students. The course offers a comprehensive approach to a school counseling program. Students will learn the mechanism with which school counselors and school counseling teams design, coordinate, implement, manage and evaluate their programs for student success.

Prerequisite(s):

COUN 540 Minimum Grade: C

COUN 551 - Professional School Counseling Issues

3 Credit(s)

This course will focus on the day-to-day life of the school counselor and current trends in school counseling. Specifically, students will gain an understanding of the counselor as educational leader, working with parents and the

community, diversity in schools, serving specific populations, crises/threat assessment, technology, career advisement, and ethical and legal issues.

COUN 586 - Internship I School Counseling

3 Credit(s)

Students will utilize knowledge and skills gained in coursework and the practicum experience in a supervised counseling setting. Students will receive supervision, increase knowledge of the profession, increase skill base, and continue the process of self-exploration and self-awareness.

Prerequisite(s):

COUN 537 Minimum Grade: B-

COUN 596 - Internship II- School Counseling

3 Credit(s)

A continuation of Internship I, students will complete their supervised on-site experience, expand their acquired skills, and receive further supervision.

Plus 3 elective credits

Doctor of Philosophy in Counselor Education and Supervision

- Go to: Counseling and Counselor Education

The Ph.D. in Counselor Education and Supervision prepares graduates to

- Work as counselor educators and supervisors, researchers and practitioners in academic and clinical settings.
- Extend the knowledge base of the counseling profession in a climate of scholarly inquiry.
- Publish and/or present the results of scholarly inquiry.
- Inform professional practice by generating new knowledge for the profession through dissertation or comparable research projects focused on areas relevant to counseling practice, counselor education, and/or supervision.
- Assume positions of leadership in the counseling profession and/or their area(s) of specialization.

Counselor Education and Supervision students at Adams State University will be

- Prepared to teach select courses in counseling skill, theory, ethics, research, assessment, group, supervision, instructional theory, and career.
- Knowledgeable and skilled in the practice of advanced clinical counseling.

- Knowledgeable and competent in cultural diversity.
- Experienced in online course development, delivery, and counseling supervision.
- Prepared to teach courses in the CACREP core.
- Prepared to supervise counselors and counseling students who provide individual and group counseling.
- Experienced in developing and conducting research.
- Experienced in presenting research results at state, regional, and national conferences.
- Experienced in writing for professional publications.
- Prepared to evaluate counselor education programs and clinical counseling sites.
- Experienced as professional counseling leaders, mentors, practitioners, and consultants.
- Experienced as active change advocates.

Degree Requirements

The Doctor of Philosophy program in Counselor Education and Supervision requires a minimum of 60 semester hours as described below. However, the order of the course offering is subject to change. Students must enter the doctoral program with a master's degree in counseling from a CACREP accredited program. If the student's degree is from a non-CACREP program, additional hours will be assessed.

COUN 705 - Advanced Theories and Career

3 Credit(s)

This course examines several major counseling and career theories that inform current counseling practice. Students will have an opportunity to compare and analyze and evaluate the compatibility and effectiveness of counseling theories in practice, including evidence based practices, and ethical and culturally relevant practice in multiple clinical settings. Students will demonstrate knowledge and application of major theories pertaining to the principles and practices of counseling and career development to include the conceptualization of clients from multiple theoretical perspectives.

COUN 708 - Quantitative Research Method

3 Credit(s)

This course examines advanced quantitative research models and methods of instrument design, such as experimental and quasi-experimental designs. Students will gain knowledge and skill in developing quantitative research questions appropriate for professional research, designing a quantitative research study, and submitting research proposals for human subjects/institutional review board reviews. Students will also be introduced to writing for publication. The course will also address ethical and diversity issues involved in research design, measurement, and implementation.

Prerequisite(s):

Admission to the doctoral program

COUN 710 - Supervision and Consultation

3 Credit(s)

Theoretical and applied aspects of the human learning process related to clinical supervision and consultation, with an

emphasis on the concepts, issues, and strategies of applied clinical supervision and its delivery will be explored in this course. This course provides an opportunity for students to synthesize and apply knowledge of supervision and the consultations process as they develop their personal style for supervision and consultation. Students will be exposed to current theories, models, and topics related to supervision and consultation. Ethical and legal issues in supervision and consultation will be addressed.

COUN 712 - Qualitative Research Methodology

3 Credit(s)

This course examines advanced qualitative research design and approaches and explores and contrasts philosophical assumptions of qualitative and quantitative research. Students will gain knowledge and skill in developing qualitative research questions appropriate for professional research, designing a qualitative research study, and submitting research proposals for human subjects/ institutional review board reviews. Students will also be introduced to writing for publication. The course will also address ethical and diversity issues involved in research design, sampling, and implementation. Areas of emphasis include specific methodologies, such as phenomenology and grounded theory, in addition to other common and emergent qualitative approaches in counselor education.

COUN 715 - Advanced Multicultural & Ethical Issues

3 Credit(s)

This course will provide an understanding of the cultural context of relationships, issues and trends in a multicultural and diverse society using relevant professional ethical codes and principles. Emphasis will be placed on delivering culturally and ethically relevant counseling in multiple settings, conducting supervision, and conducting and reviewing research. Cultural and ethically relevant leadership and advocacy practices will be discussed. Students will explore current social and cultural issues, including social change theory and advocacy action planning. The role of racial, ethnic, and cultural heritage; nationality; socioeconomic status; family structure; age; gender; sexual orientation; religious and spiritual beliefs; occupation; physical and mental status; local, regional, national, and international perspectives; and equity issues in counselor education programs, counseling supervision, and counseling research.

COUN 717 - Instructional Theory in Counselor Education

3 Credit(s)

This course prepares students to teach counseling and related courses. Topics covered are learning theories, retention of material, motivation, classroom instructional strategies and techniques, and assessment of learning from the core learning expectations. This course will provide an overview of the history and development of counselor education with an examination of the theoretical orientation and practice skills necessary to function effectively as a counselor educator. Students will examine their personal philosophy of teaching and learning and demonstrate the ability to design, deliver, and evaluate methods appropriate to course objectives.

COUN 720 - Advanced Group Counseling

3 Credit(s)

This course focuses on a critical analysis of advanced group counseling theories, approaches, literature, and modalities applicable to working with groups. Students will engage in experiential learning focused on in-depth exploration of their personal approach to group leadership and supervision. Students will also develop advanced group counseling leadership skills and identify strategies based upon the special needs and characteristics of diverse client groups.

COUN 722 - Quantitative Data Analysis

3 Credit(s)

This course examines univariate and multivariate statistics most frequently used in psychological research. Students will learn how to read and interpret these statistics in published psychological research as well as how to apply them to the analysis of their own research projects. Students will learn how to select the appropriate statistical analyses, collect data in a controlled manner, analyze the data, and interpret the results. This course emphasizes skill in applying advanced statistical techniques to social science research, interpreting results of statistical analyses, and data analyses and presentations. This course will also address writing for professional publications and conference proposals, as well as ethical and diversity issues involved in analyzing and publishing research.

Prerequisite(s):

COUN 708

COUN 723 - Qualitative Data Analysis

3 Credit(s)

This course provides an in-depth exploration of qualitative research methodologies and the development of advanced-level qualitative research skills. Advanced topics in qualitative research are considered to foster critical thinking skills and to inform a long-term research agenda. Epistemological assumptions, theoretical considerations, data collection, and analytic procedures for grounded theory, phenomenological, narrative, case study, ethnographic research designs, and other emergent research practices and processes are reviewed. This course emphasizes skill in interpreting the results of qualitative data analyses; students will apply knowledge and skill to the analysis of their own research projects. This course will also address writing for professional publications and conference proposals and ethical and diversity issues involved in analyzing and publishing research.

Prerequisite(s):

COUN 712

COUN 725 - Seminar in Counselor Education

3 Credit(s)

This course is designed to facilitate the student's awareness and knowledge in current issues related to counselor educators. Students will discuss and present current issues in the field, providing a format for debate and discussion. The course will increase the student's awareness of the ever-changing areas of social and educational change.

COUN 727 - Advanced Practicum in Counseling

3 Credit(s)

This advanced supervised practicum in counseling will enable doctoral-level students to develop and/or refine advanced counseling skills and conceptually link counselor practice and supervision. The doctoral practicum focuses on additional supervised clinical counseling experience beyond the supervised experience completed in the student's master's degree program. Students are required to participate in a supervised doctoral-level practicum of a minimum of 100 hours in counseling, of which 40 hours must be in direct service with clients. The nature of the doctoral-level practicum experience is to be determined in consultation with program faculty and/or a doctoral committee. Students will participate in weekly group supervision with a faculty member and other practicum students.

COUN 729 - Seminar: Leadership & Advocacy

3 Credit(s)

This leadership focused course will focus on current issues in counseling to include the role of ethical and legal consideration in counselor education and supervision. Focus will be on the theories, skills and models of leadership as well as strategies for responding to community, national, and international crises and disasters. Students will explore current topical and political issues in counseling and how those issues affect the daily work of counselors and the counseling profession. Students must demonstrate the ability to provide leadership or contribute to leadership efforts of professional organizations and/or counseling programs and the ability to advocate for the profession and its clientele.

COUN 735 - Advanced Assessment and Program Evaluation

3 Credit(s)

This course serves as an advanced course on the principles of assessment, testing, and evaluation. Students will examine and critique assessment instruments used in counseling and counselor education. Students will develop knowledge and skills to prepare them for teaching assessment at the Master level. Additionally, this course focuses on the concepts and processes related to program evaluation and the steps in performing a program evaluation. Emphasis is on the application and demonstration of critical thinking skills related to analyzing and evaluating programs. Students will also gain foundational knowledge about writing grant proposals appropriate for research, program enhancement, and/or program development.

Prerequisite(s):

Admission into the doctoral program

COUN 736 - Dissertation Seminar

3 Credit(s)

This course focuses on developing the essential components of the student's dissertation. This seminar is designed to assist students in making substantive progress in identifying and developing their dissertation proposal. Students will critically examine the current literature associated with their research interests and examine the current literature associated with their research interests and examine applicable conceptual constructs and methodologies. Students will complete the first drafts of the first three chapters of their dissertation, which will be used for their dissertation proposal. A complete review of the literature and draft of the dissertation proposal will be evaluated for methodological strengths and weaknesses.

Prerequisite(s):

COUN 708 Minimum Grade: B-
AND

COUN 712 Minimum Grade: B-
AND

COUN 722 Minimum Grade: B-
AND

COUN 734 Minimum Grade: B-

COUN 737 - Doctoral Internship I-Supervision

1 Credit(s)

Students are required to complete doctoral-level counseling internships that total a minimum of 600 clock hours. The 600 hours must include supervised experiences in at least three of the five doctoral core areas (counseling, teaching, supervision, research and scholarship, leadership and advocacy). The 600 credit hours may be allocated at the discretion of the doctoral advisor of the doctoral advisor and the student on the basis of experience and training. Internship is designed to provide individual students with a planned program of advanced doctoral level professional experience in a college or community/agency setting. Internship assignments will be controlled and coordinated by a university instructor. An experienced professional at the internship site provides direct supervision. The doctoral-level internship will consist of providing individual and group supervision to master's level students, teaching and/or co-teaching master's level counseling courses, and participating in professional activities related to counselor education. If doctoral students have had limited clinical counseling experiences prior to beginning their doctoral work, they may also be required to complete credit hours in a counseling setting to gain more counseling experience

Prerequisite(s):

COUN 710 Minimum Grade: B-

COUN 738 - Doctoral Internship II Teaching

1 Credit(s)

Students are required to complete doctoral-level counseling internships that total a minimum of 600 clock hours. The 600 hours must include supervised experiences in at least three of the five doctoral core areas (counseling, teaching, supervision, research and scholarship, leadership and advocacy). The 600 credit hours may be allocated at the discretion of the doctoral advisor and the student on the basis of experience and training. Internship is designed to provide individual students with a planned program of advanced doctoral level professional experience in a college or community/agency setting. Internship assignments will be controlled and coordinated by a university instructor. An experienced professional at the internship site provides direct supervision. The doctoral-level internship will consist of student's engaging in teaching activities, which include but are not limited to teaching master's level students on-campus/online. If doctoral students have been limited clinical counseling experiences prior to beginning their doctoral work, they may also be required to complete credit hours in a counseling setting to gain more counseling experience.

Prerequisite(s):

COUN 710 Minimum Grade: B-

AND

COUN 737 Minimum Grade: B-

COUN 739 - Doctoral Internship III Supervision

1 Credit(s)

Students are required to complete doctoral-level counseling internships that total a minimum of 600 clock hours. The 600 hours must include supervised experiences in at least three of the five doctoral core areas (counseling, teaching, supervision, research and scholarship, leadership and advocacy). The 600 credit hours may be allocated at the discretion of the doctoral advisor and the student on the basis of experience and training. Internship is designed to provide individual students with a planned program of advanced doctoral level professional experience in a college or community/agency setting. Internship assignments will be controlled and coordinated by a university instructor. An experienced professional at the internship site provides direct supervision. The doctoral-level internship will consist of providing individual and group supervision to master's level students, teaching and/or co-teaching master's level counseling courses, and participating in professional activities related to counselor education. If doctoral students have

had limited clinical counseling experiences prior to beginning their doctoral work, they may also be required to complete credit hours in a counseling setting to gain more counseling experience.

Prerequisite(s):

COUN 710 Minimum Grade: B-
AND

COUN 737 Minimum Grade: B-

AND

COUN 738 Minimum Grade: B-

COUN 743 - Doctoral Internship IV Core

1 Credit(s)

Students are required to complete doctoral-level counseling internships that total a minimum of 600 clock hours. The 600 hours must include supervised experiences in at least three of the five doctoral core areas (counseling, teaching, supervision, research and scholarships, leadership and advocacy). The 600 credit hours may be allocated at the discretion of the doctoral advisor and the student on the basis of experience and training. Internship is designed to provide individual students with a planned program of advanced doctoral level professional experience in a college or community/agency setting. Internship assignments will be controlled and coordinated by a university instructor. An experienced professional at the internship site provides direct supervision. The doctoral-level internship will consist of student's choosing from one of three doctoral core areas to complete internship hours. These include counseling, research and scholarship, leadership and advocacy. If doctoral students have had limited clinical counseling experiences prior to beginning their doctoral work, they must also be required to complete credit hours in a counseling setting to gain more counseling experience.

Prerequisite(s):

COUN 710 Minimum Grade: B-
AND

COUN 737 Minimum Grade: B-

AND

COUN 738 Minimum Grade: B-

AND

COUN 739 Minimum Grade: B-

COUN 741 - Doctoral Internship V Teaching

1 Credit(s)

Students are required to complete doctoral-level counseling internships that total a minimum of 600 clock hours. The 600 hours must include supervised experience in at least three of the five doctoral core areas (counseling, teaching, supervision, research and scholarship, leadership and advocacy). The 600 credit hours may be allocated at the discretion of the doctoral advisor and the student on the basis of experience and training. Internship is designed program of advanced doctoral level professional experience in a college or community/agency setting. Internship assignments will be controlled and coordinated by a university instructor. An experienced professional at the internship site provides direct supervision. The doctoral-level internship will consist of student's engaging in teaching activities,

which include but are not limited to teaching master's level students on-campus/online. If doctoral students have had limited clinical counseling experiences prior to beginning their doctoral work, they may also be required to complete credit hours in a counseling setting to gain more counseling experience.

Prerequisite(s):

COUN 710 Minimum Grade: B-
AND

COUN 737 Minimum Grade: B-
AND

COUN 738 Minimum Grade: B-
AND

COUN 739 Minimum Grade: B-
AND

COUN 743 Minimum Grade: B-

COUN 742 - Doctoral Internship VI Supervision

1 Credit(s)

Students are required to complete doctoral-level counseling internships that total a minimum of 600 clock hours. The 600 hours must include supervised experience in at least three of the five doctoral core areas (counseling, teaching, supervision, research and scholarship and advocacy). The 600 credit hours may be allocated at the discretion of the doctoral advisor and the student on the basis of experience and training. Internship is designated to provide individual students with a planned program of advanced doctoral level professional experience in a college or community/agency setting. Internship assignments will be controlled and coordinated by a university instructor. An experienced professional at the internship site provides direct supervision. The doctoral-level internship will consist of providing individual and group supervision to master's level students, teaching and/or co-teaching master's level counseling courses, and participating in professional activities related to counselor education. If doctoral students have had limited clinical counseling experiences prior to beginning their doctoral work, they may also be required to complete credit hours in a counseling setting to gain more counseling experience

Prerequisite(s):

COUN 710 Minimum Grade: B-
AND

COUN 737 Minimum Grade: B-
AND

COUN 738 Minimum Grade: B-
AND

COUN 739 Minimum Grade: B-
AND

COUN 743 Minimum Grade: B-

AND

COUN 741 Minimum Grade: B-

COUN 744 - Dissertation I

3 Credit(s)

This course is a Counselor Education & Supervision doctoral degree requirement focused on preparing students to inform professional practice by generating new knowledge for the counseling profession through dissertation research or a comparable research project focusing on areas relevant to counseling practice, counselor education, and/or supervision. Further, the course requires students to work individually with their doctoral committee to determine the specific requirements for completing dissertation research or comparable research project including a dissertation/project proposal and defense. Students may register for this course after successfully completing oral and written comprehensive exams and with the permission of their dissertation committee. The student's doctoral dissertation/project committee chair (or intended doctoral dissertation/project committee chair) will oversee the work of the student.

COUN 746 - Dissertation II

3 Credit(s)

This course is a Counselor Education & Supervision doctoral degree requirement focused on preparing students to inform professional practice by generating new knowledge for the counseling profession through dissertation research or a comparable project focusing on areas relevant to counseling practice, counselor education, and/or supervision. Further, the course requires students to work individually with their doctoral committee to determine the specific requirements for completing dissertation research or comparable research project including a dissertation/project proposal and defense. Students may register for this course after successfully completing oral and written comprehensive exams and with the permission of their dissertation committee. The student's doctoral dissertation/project committee chair (or intended doctoral dissertation/project committee chair) will oversee the work of the student. The student in collaboration with the supervising faculty member will develop a concrete plan of work related to the student's intended dissertation/research project.

Prerequisite(s):

COUN 744 Minimum Grade: B-

COUN 751 - Dissertation III

3 Credit(s)

This course is a Counselor Education & Supervision doctoral degree requirement focused on preparing students to inform professional practice by generating new knowledge for the counseling profession through dissertation research or a comparable research project focusing on areas relevant to counseling practice, counselor education, and/or supervision. Further, the course requires students to work individually with their doctoral committee to determine the specific requirements for completing dissertation research or comparable research project including a dissertation/project proposal and defense. Students may register for this course after successfully completing oral and written comprehensive exams and with the permission of their dissertation committee. The students doctoral dissertation/project committee chair (or intended doctoral dissertation/project committee chair) will oversee the work of the student. The student in collaboration with the supervising faculty member will develop a concrete plan of work related to the students intended dissertation/research project.

Prerequisite(s):

COUN 736 Minimum Grade: B

AND

COUN 744 Minimum Grade: B

AND

COUN 746 Minimum Grade: B

COUN 755 - Dissertation IV

3 Credit(s)

This course is a Counselor Education & Supervision doctoral degree requirement focused on preparing students to inform professional practice by generating new knowledge for the counseling profession through dissertation research or a comparable research project focusing on areas relevant to counseling practice, counselor education, and/or supervision. Further, the course requires students to work individually with their doctoral committee to determine the specific requirements for completing dissertation research or comparable research project including a dissertation/project proposal and defense. Students may register for this course after successfully completing oral and written comprehensive exams and with the permission of their dissertation committee. The student's doctoral dissertation/project committee chair (or intended doctoral dissertation/project committee chair) will oversee the work of the student. The student, in collaboration with the supervising faculty member, will develop a concrete plan of work related to the student's intended dissertation/research project.

Prerequisite(s):

COUN 736 Minimum Grade: B

AND

COUN 744 Minimum Grade: B

AND

COUN 746 Minimum Grade: B

AND

COUN 751 Minimum Grade: B

COUN 756 - Dissertation Continuation

1 Credit(s)

This course is a Counselor Education and Supervision doctoral degree requirement for students who have not successfully defended their dissertation after completing COUN 755 - Dissertation IV. This course allows students to continue and complete dissertations with the assistance of the dissertation committee.

Prerequisite(s):

COUN 736 Minimum Grade: B-

AND

COUN 744 Minimum Grade: B-

AND

COUN 746 Minimum Grade: B-

AND

COUN 751 Minimum Grade: B-

AND

COUN 755 Minimum Grade: B-

Program Total (60 Hours)

School Counseling Certificate

The School Counseling Certificate will provide individuals who hold a Master's degree in Counseling from a CACREP-accredited institution a pathway to become a licensed school counselor in the state of Colorado. These certificate students will complete four classes (12 credits) in our existing school counseling degree plan. They will also be required to complete two semesters of School Counseling Internship (6 credits) in elementary, middle, and high school for a total of 600 hours. This certificate program will be run in a cohort model, and it will take students three semesters to complete the coursework and requirements.

Required Courses

COUN 534 - Counseling Modalities in a School Setting

3 Credit(s)

This course focuses on applying the skills interventions and modalities learned in the counseling courses to the school setting. Emphasis will be on learning to use evidence-based practices to help K-12 students function more effectively in the academic, personal/social, and career domains.

COUN 540 - Foundations of School Counseling

3 Credit(s)

This course provides an introduction to professional school counseling, including historical perspectives, theory, practice, employment settings, credentialing, legislation, research, and ethical considerations.

COUN 541 - Comprehensive School Counseling

3 Credit(s)

This course offers an in-depth exploration of current professional school counseling. Students will understand the skills needed in counseling, consulting, advocacy, and collaboration to promote academic success for all students. The course offers a comprehensive approach to a school counseling program. Students will learn the mechanism with which school counselors and school counseling teams design, coordinate, implement, manage and evaluate their programs for student success.

Prerequisite(s):

COUN 540 Minimum Grade: C

COUN 551 - Professional School Counseling Issues

3 Credit(s)

This course will focus on the day-to-day life of the school counselor and current trends in school counseling. Specifically, students will gain an understanding of the counselor as educational leader, working with parents and the community, diversity in schools, serving specific populations, crises/threat assessment, technology, career advisement, and ethical and legal issues.

COUN 586 - Internship I School Counseling

3 Credit(s)

Students will utilize knowledge and skills gained in coursework and the practicum experience in a supervised counseling setting. Students will receive supervision, increase knowledge of the profession, increase skill base, and continue the process of self-exploration and self-awareness.

Prerequisite(s):

COUN 537 Minimum Grade: B-

COUN 596 - Internship II- School Counseling

3 Credit(s)

A continuation of Internship I, students will complete their supervised on-site experience, expand their acquired skills, and receive further supervision.

School of Education

The School of Education is authorized by the Colorado State Board of Education to provide licensure and endorsement programs.

We are dedicated to inspiring and empowering the cultivation of educational leaders who embrace diversity, facilitate change, and contribute to the learning and inclusion of all students, particularly in rural regions.

Departments

- Educational Leadership
- Educational Preparation

Educational Leadership

Educational Leadership, part of the School of Education, prepares higher education professionals to manage and lead in institutions of higher education, especially Hispanic Serving Institutions (HSIs), and to enhance the success of the students they serve. Adams State's Master of Arts and post-graduate Executive Leadership Certificate offer cohort-based, experiential learning in an online environment. These flexible programs are designed for the working professional. The M.A. program is a two-year program and the Executive Leadership Certificate (ELC) is a one-year, post-graduate program. Both have two residencies-an orientation and a Leadership Summit-which provide networking and mentoring opportunities for our students.

Department Faculty

Department Chair

- Melissa L. Freeman, Ph.D.

Master of Arts in Leadership Education Administration and Development (LEAD) with Emphasis in Higher Education Administration and Leadership (HEAL)

Go to: Educational Leadership

This program prepares higher education professionals to manage and lead in institutions of higher education, especially Hispanic Serving Institutions (HSIs), and to enhance the success of the students they serve.

Degree Requirements (36 credits)

Complete the following 3 Certificates

- Data Analytics and Decision-Making Certificate (9 credits)
- Educational Policy in LEAD Certificate (12 credits)
- Leadership Certificate (12 credits)

Plus the Higher Education Capstone

LEAD 598 - Capstone/Portfolio in Higher Education

3 Credit(s)

Program coherence and student learning are demonstrated through a public exhibition and faculty assessment of a Capstone course. The Capstone is required for graduation with a masters degree. This course is designed to document what students have learned about higher education as a field of study and practice. Through the completion of case studies, two Star papers (scholarly-professional), and a reflective presentation, students will present evidence of how their learning aligns with the program goals of the curriculum. Capstone serves as a formative and summative evaluation of student learning.

Master of Arts in Leadership Education Administration and Development (LEAD) with Emphasis in Superintendent Licensure

Go to: Educational Leadership

Degree Requirements (36 credits)

Complete the following 3 Certificates

- Educational Policy in LEAD Certificate (12 credits)
- Leadership Certificate (12 credits)
- Superintendent Licensure Certificate (9 credits)

Plus a Data Analysis Course

LEAD 560 - Data Analysis in Higher Education

3 Credit(s)

This course introduces the concepts and skills involved in understanding and analyzing research in a variety of areas in higher education. The course provides an overview of basic, general knowledge of various research methodologies. It emphasizes the conceptual underpinnings of statistical analysis of data, including univariate and bivariate descriptive statistics, sampling distributions, statistical estimation, hypothesis testing and procedures in testing statistical hypothesis for one and two sample designs. This course also enhances students' abilities to locate, read, comprehend, and critically analyze research articles and reports.

Leadership Certificate (12 credits)

Required Courses

LEAD 500 - Leadership Theory

3 Credit(s)

This course provides a study/review of leadership theories and leadership development concepts. Students will gain an understanding of leadership, leadership theories, and leadership development.

LEAD 501 - Cultural Competency and Equity in Higher Ed

3 Credit(s)

This course focuses on issues of equity, cultural competency, diversity and allyship to provide students with the tools needed to create more inclusive and socially just environments in higher education.

LEAD 520 - Leadership in MSIs

3 Credit(s)

This course examines the various leadership theories that inform the practice of administration in colleges and

universities and the higher education industry in general. Through assignments, special attention will be geared toward applying these theories to leadership within the context of Hispanic Serving Institutions (HSIs).

LEAD 521 - Administrative and Academic Collaboration

3 Credit(s)

This course provides students with an overview of staffing practices in higher education and the opportunities and challenges for collaboration between faculty, staff, and administration, with a special emphasis on acquiring a better understanding of who faculty are, what faculty do, and what faculty think. Particular attention will be given to how organizational culture drives collaborative efforts in minority serving institutions.

Educational Policy in LEAD Certificate (12 credits)

Go to: Educational Leadership

Go to: Master of Arts in Leadership Education Administration and Development (LEAD) with Emphasis in Higher Education Administration and Leadership (HEAL)

Required Courses

LEAD 530 - Budgeting and Finance in Higher Education

3 Credit(s)

This course provides students with an overview of finance and budgeting issues in higher education. It describes the financial resource management in institutions as well as the budgeting process.

LEAD 531 - Politics and Policy in Higher Education

3 Credit(s)

This course examines state and federal government policies that influence institutions of higher education (IHEs) generally and Hispanic Serving Institutions (HSIs) specifically. The intersection between policies and institutional actions creates a dynamic that influences administrative leadership and student access and success. Effective leaders must account for the context in which they operate, and state and federal policies contribute to that context and, as such, merit special consideration and study.

LEAD 532 - Legal Issues in Higher Education

3 Credit(s)

This course is designed to review the impact of the judiciary on higher education. The legal standing of institutions of higher education on issues of staff rights, student rights, and tort liability will be addressed. In addition, the impact of local ordinances, state and federal laws and regulations will be examined.

LEAD 533 - Historical/Contemporary Issues

3 Credit(s)

This course provides students with an overview of the evolution of American higher education as we know it today. The first half of the course is an examination of the history of American higher education, beginning with colonial times and tracing its development to the present. The second half of the course examines current topics in higher education, focusing on perennial issues and why they continue to perplex higher education officials.

Data Analytics and Decision-Making Certificate (9 credits)

Required Courses

LEAD 560 - Data Analysis in Higher Education

3 Credit(s)

This course introduces the concepts and skills involved in understanding and analyzing research in a variety of areas in higher education. The course provides an overview of basic, general knowledge of various research methodologies. It emphasizes the conceptual underpinnings of statistical analysis of data, including univariate and bivariate descriptive statistics, sampling distributions, statistical estimation, hypothesis testing and procedures in testing statistical hypothesis for one and two sample designs. This course also enhances students' abilities to locate, read, comprehend, and critically analyze research articles and reports.

LEAD 561 - Institutional Research, Planning, and Assessment

3 Credit(s)

This course provides students with an overview of decision-making strategies and techniques for effective planning, institutional research, and assessment. Particular attention will be given to the diversity of institutional settings and the context within which leaders in higher education practice, including small and large campuses, public and private colleges and universities, system offices, and state and federal level agencies.

LEAD 562 - Strategic Enrollment Management

3 Credit(s)

This course provides students with a study of purposes, organizations, and functions of strategic enrollment management (SEM) including relevant research, case studies of public and private college and university implementation of SEM, its context in higher education, and contemporary practical administrative SEM organizations and functions. Topics will be covered such as admissions, financial aid, student access and success, college completion, marketing and branding, technology, change management, and state and federal policies.

Superintendent Licensure Certificate (9 credits)

Required Courses

LEAD 510 - The Superintendency

3 Credit(s)

This course provides a survey of the Superintendency as an executive position responsible for the organizational leadership and management of school districts in the United States. Emphasis will be placed on unpacking professional standards from the American Association of School Administrators (AASA) as well as Colorado-based standards for licensure as a school administrator/superintendent.

Candidates will be expected to critically examine each of Standards in terms of how they are implemented through policies and practices within their own districts while making recommendations for improving such policies based on current research and best practice

LEAD 511 - Superintendents as Transformational Leaders

3 Credit(s)

This course supports aspiring superintendents in developing the knowledge and skills necessary to be responsive, transformational leaders in diverse school contexts. Throughout the course, candidates will engage in case-study analysis and critical discussion to work through potential dilemmas and challenges while applying research and best practice in leadership to sustain a clear focus on student learning through well-managed systems. The content of this course aligns to Colorado Department of Education and AASA standards.

LEAD 512 - Superintendent Practicum

3 Credit(s)

During this 300-hour practicum, candidates will apply knowledge and skills gained throughout the program to demonstrate competency in each of the required licensure standards for Administrator/Superintendent in Colorado.

Candidates will document progress on each standard by logging their experiences and writing monthly reflection papers in which they explicitly address how they are progressing on demonstrating licensure standards. This course also includes the final/capstone project- a candidate driven project developed in coordination with the candidate's mentor and host site to address a local need.

Educational Preparation

Go to: School of Education

With an education degree, you'll acquire the tools to become a knowledgeable K12 professional who can facilitate learning for all students. More so, you'll be equipped to actively participate in school improvement, applying your new skills necessary to school reform while fostering collaboration and cooperation. Engaged and attentive faculty will prepare you for the challenges and rewards of the teaching profession by sharing instructional strategies to address a range of learning styles, including effective strategies for linguistically and culturally diverse students. You'll participate in student-teaching for hands-on experience, where you'll apply knowledge of learning theory and instructional strategies to classroom practice.

- Education Program Faculty
- Student Responsibility

- Steps to Initial Licensure

Course List

All Courses Offered by Educational Preparation

Bachelor of Arts in Elementary Education

Go to: Educational Preparation

Students preparing to be elementary teachers will complete an undergraduate Bachelor of Arts degree in Elementary Education with coursework and field experience in literacy and language, content methods, and education practices within their chosen major.

Choose Your Emphasis and Complete Those Requirements

Select an approved content area emphasis with your advisor:

- Bachelor of Arts in Elementary Education Licensure, Art Emphasis
- Bachelor of Arts in Elementary Education Licensure, Chemistry Minor
- Bachelor of Arts in Elementary Education Licensure, Culturally and Linguistically Diverse Education (CLD) Emphasis
- Bachelor of Arts in Elementary Education Licensure, Literacy Emphasis
- Bachelor of Arts in Elementary Education Licensure, Mathematics Emphasis
- Bachelor of Arts in Elementary Education Licensure, Music Emphasis
- Bachelor of Arts in Elementary Education Licensure, Science Emphasis
- Bachelor of Arts in Elementary Education Licensure, Social Studies Emphasis
- Bachelor of Arts in Elementary Education Licensure, Spanish Emphasis

Complete the Licensure Requirements

ED 200 - Perspectives of Teaching and Learning

3 Credit(s)

A study of school, societal and cultural issues and their influences on teaching and learning. As an introductory course, the purpose is to learn about teaching as a career choice, the historical development of American education, social and political structures in the schools, and power groups influencing educational policy. Issues of educational reform will include civil rights, students' rights, ethnic, gender and racial issues, individualizing instructions, special education, learning theory models, (inclusive of diversity issues related to electronic media) and alternative school structures. Emphasis is placed on the orientation and development of a proficient and reflective professional educator. A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

PSYC 204 - Child Development

3 Credit(s)

The goal of this course is to examine the interaction of heredity and environment on human development from conception through pre-adolescence. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Some topics include the birth process, early cognitive and language development, gender socialization, the impact of parenting styles, and moral reasoning.

Prerequisite(s):

PSYC 101 Minimum Grade: C or T

ED 220 - The Exceptional Learner

3 Credit(s)

This course is designed to survey the foundations of special education, including historical, philosophical perspectives, legal issues and current trends in instruction and programming. Students will explore the role of general education as it relates to the education of the student with exceptional needs. Emphasis will be placed on developing knowledge of various disabling conditions, available resources and educational alternatives. Students will learn about the ethical and sociopolitical influences on prevention, intervention and educational programs for students with special needs, from birth through post-secondary ages. Learning characteristics and the diverse needs of students who receive special education services will also be studied. From a pedagogically sound, as well as developmentally appropriate perspective, the similarities and differences within and between exceptionalities and typical development will be emphasized. A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office PRIOR to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

ED 230 - Science of Reading

3 Credit(s)

This foundational course in reading explores literacy development and the structure of language by a) defining the relationship between cognitive and linguistic development, b) assessing literacy development, c) nurturing the development of emergent literacy, and d) investigating and planning instruction for the five components of reading which include phonemic awareness, phonics, fluency, vocabulary, and comprehension.

NOTE:

- A 20-hour, pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field-experience. Photo IDs must be obtained PRIOR to the beginning of the field-experience component.
- Field-experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

ED 300 - The Reading and Writing Connection

3 Credit(s)

This course delves into the art of effective teaching methods in the realms of reading and writing, highlighting the intricate link between these subjects. Furthermore, it addresses the reality that some students encounter difficulties in these areas. The course equips learners with the skills to employ a diverse range of assessments, encompassing both formal and informal approaches, to gauge a student's strengths and areas needing improvement. It will also elucidate the significance of employing various assessment methods and their impact on enhancing instruction and elevating student achievement. This course will involve lecture, discussion, videos in a hybrid, online, or face-to-face model along with practice in the classroom. Students will complete associated hours of supervised field-based experiences to observe and interact directly in educational environments. Field service hours are required for licensure.

Documentation of verified hours will be collected as part of the undergraduate course. Students will be responsible for their own transportation to the field sites.

Note:

- A 20-hour, pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field-experience. Photo IDs must be obtained PRIOR to the beginning of the field-experience component.
- Field-experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to Ed Prep Program and Clear Fingerprint background check

ED 345 - Educational Psychology

3 Credit(s)

Designed to explore the background of educational psychology. Major topic areas include: research, value and utilization, student characteristics and diversity, learning theories and their application, motivation, teaching methods and practices, evaluating student learning, and standardized measurements. Students will develop increased ability to understand and assess the interrelationships of intellectual, cognitive, instructional, personality, social and cultural influences, theories, and factors as they affect the learning environments. Students will cover assessment procedures, analysis of data, legal and ethical responsibilities as part of necessary research and evaluation within the school learning environment. Emphasis is placed on developing knowledge of historical and current research and its meaning for interaction and planning in the school setting.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

ED 347 - Teaching, Learning, and Technology

3 Credit(s)

This course is an introduction to the theories and applications of appropriate and effective uses of technology to achieve pedagogical goals. Content includes exploring emerging technologies, designing lessons aligned to the Colorado Essential Skills, integrating digital tools to strengthen teaching and improve student learning, identifying guidelines for designing and implementing online learning environments, comparing various theories of teaching and learning related to the design of virtual lessons/online programs, and describing effective instructional strategies for online learning. Using technology in K-12 classrooms is relevant to prepare students for success in post-secondary and workforce settings.

Prerequisite(s):

Clear Fingerprint background check

Choose One Course (3 Credits)

CLD 401 - Introduction to the Study of Language

3 Credit(s)

This course provides prospective teachers with an overview of the study of language and how it works. It is an introduction to the scientific study of language and linguistics. The course provides for examination of relevant theories of language and how language is acquired as well as cognitive, societal and cultural considerations affecting its use. Specific topics to be examined include: the structure of languages, grammatical constructs (e.g., morphology, syntax, semantics, phonetics, phonology, and discourse), the interactions between language use and social structures, and the representation of language in the brain. Instructional applications will be considered. The course presupposes no formal study or knowledge of language/ linguistics.

Prerequisite(s):

Clear Fingerprint background check

CLD 402 - Language and Culture

3 Credit(s)

This course explores the peculiar relationship between language and the cultural total of which the language is a part, including the connection between cultural identity and heritage language. It examines language variations within a community according to gender, age, geography, ethnicity, socioeconomic class and level of education. Specifically, the course deals with the linguistic factors characterizing differences in language and with the social and social-psychological variables associated with these differences. Attention is given to the different varieties of language within a speech community (e.g., dialect, register, and style) and the societal and cultural factors that define their use. Course content considers the educational, political and economic implications. The course presupposes no formal study or knowledge of language/ linguistics. Accordingly, the course focuses on the different ways people speak. It deals with the linguistic factors characterizing differences in language and with the social and social-psychological variables associated with these differences. Thus, having completed the course, students should (a) be aware of the different linguistic choices available to speakers in different social/ cultural contexts, (b) have an understanding of the factors which influence the choosing of one variety over another and the societal implications of such choices, (c) gain an appreciation for language diversity and cultural pluralism and, for those in teacher education programs, and, for education majors, (d) be able to demonstrate ability to identify and adapt instructional applications that are responsive to learners from different cultural backgrounds.

Prerequisite(s):

Clear Fingerprint background check

CLD 403 - Second Language Acquisition

3 Credit(s)

Introduction to second language acquisition (SLA) theory and the application of SLA theory to second/foreign language teaching practices. Explores what it means to know a language and, hence, how one learns/ acquires a second language. The emphasis in the course is to provide an opportunity to become familiar with up-to-date major theories of language acquisition (e.g., linguistic, psychological, sociological, etc.). That is, what happens in the mind of L1

learners and expand to 2L learners. This is not a methodology course, though certain methods and approaches will be discussed as they are direct applications of 2L theories. Instead, students will be exposed to what research data show about the complex process of learning a second language, and to teach them how to rely on these data to understand a number of major models (theories) of 2LL and, as a result, be able to use this knowledge to evaluate different methods, materials and assessments for 2LL/CLD populations. The course presupposes no formal study or knowledge of language/ linguistics. As part of the course content, we will seek to foster cultural sensitivity to the diverse student population becoming increasingly prevalent in classrooms in the U.S. We will also be concerned with providing the basic skills needed to satisfactorily assess the suitability of diverse 2LL methodologies & programs to meet the needs of limited English proficiency (LEP) students. An underlying assumption of the course is that learning is a social process that takes place within the broader social milieu of the learner's speech community. Accordingly, 2L learners bring into the classroom diverse language and cultural backgrounds, as well as a unique set of competencies, skills, sensitivities, goals, and needs. In order to provide for a successful learning environment, teachers must be able to identify and relate to the diversity inherent in today's student population and be able to take affirmative steps towards addressing the needs of the students in their classrooms. Course content and activities will assist participants in developing a greater appreciation of democracy and diversity in the classroom as we prepare for a global society as reflected in current theories of 2L acquisition.

Prerequisite(s):

Clear Fingerprint background check

CLD 479 - Special Topics

0.5 to 6 Credit(s)

Offered periodically to meet the needs of students.

Prerequisite(s):

Clear Fingerprint background check

Complete the Academic Core

Courses completed to meet any other degree or the Undergraduate General Education Requirements cannot be used to fulfill this requirement

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

GSCI 300 - World Geography

3 Credit(s)

The course examines human or cultural geography with a global perspective. It uses a topic centered approach. It is intended to give the student an appreciation of the interaction between physical geography, environment, and cultural practices.

ED 240 - Math for Elementary Teachers

3 Credit(s)

This course is designed for prospective elementary teachers. Emphasizes the real number system, arithmetic operations, algebra, probability, data analysis, geometry, and measurement. Explorations focus on representing, analyzing, generalizing, formalizing, and communicating patterns and probabilities. Representations of data, two- and three-dimensional shapes, their properties, measurements, and transformations will also be explored. Content presented using problem solving, exploration, and integration with other discipline areas.

Prerequisite(s):

Clear Fingerprint background check

ED 250 - Science for Elementary Teachers

3 Credit(s)

This course will support students developing a better understanding of elementary science concepts and processes. It will focus on the Crosscutting Concepts to help students explore connections across the four domains of science. The class will focus on the disciplinary core Ideas, which are the key ideas in science that have broad importance within or across multiple science or engineering disciplines. The discipline core ideas are grouped into the following four domains: Physical Science, Life Science, Earth and Space Science, and Engineering. Content will be presented using inquiry science and project-based instruction.

Prerequisite(s):

Clear Fingerprint background check

Pass PRAXIS II

Complete the Senior Block (EPP Admission Required)

Courses must be taken concurrently

ED 310 - STEM Methods

3 Credit(s)

This course provides a background on high leverage practices such as: explaining and modeling content, eliciting and interpreting, and diagnosing patterns of student thinking for STEM. The course will also include close examination of the P-6 Colorado Science and Mathematics Content Standards. This background prepares students to develop and implement STEM learning experiences for students at the elementary grade level. Emphasis is on the integration of STEM into the broader curriculum, especially literacy, and to instruction strategies that support success for all students, including linguistically and culturally diverse learners. Topics cover interpreting student work, checking student understanding, designing units, being precise with language in STEM content, and how to use inquiry.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

Co-requisite(s): ED 434L

ED 414 - Inclusive and Safe Classroom Management

3 Credit(s)

This course explores the foundational principles of effective classroom instruction, behavior evaluation, and management techniques while promoting a safe and healthy school environment. This course equips candidates with critical thinking skills to design and implement successful classroom management strategies, emphasizing student achievement through effective time management, communication, and record-keeping procedures. Candidates will also develop comprehensive management plans. Candidates will examine school law and professional ethics for educators. They will gain insights into the legal and ethical frameworks that guide their roles as educators, ensuring they are well-prepared to uphold the highest standards of professionalism and integrity. The content of this course addresses health and wellness topics, including conflict resolution, mediation, nutrition, emergency protocols, and first aid within the educational setting. Candidates will design and implement SEL curricula, considering diverse student needs and crisis prevention and intervention strategies. This course is essential for educators to create a safe, healthy, and inclusive learning environment.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to the Educator Preparation Program; Clear Fingerprint background check

Co-requisite(s): ED 434L

ED 426 - Pedagogical Strategies for Cultural Competence

3 Credit(s)

This is a dynamic and transformative course designed to equip future educators with the essential knowledge and skills to foster cultural competence in the classroom. Students will engage in learning that enhances their ability to use data to better understand and respond to diversity in their respective schools and communities. They will critically examine the impact of cultural values and bias on school curriculum and teacher practice, while applying strategies aimed at creating more culturally responsive experiences for diverse children. Students will also deepen their understanding and practice in working with vulnerable students and families, including those facing abuse, trauma, generational poverty and other forms of crisis.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

Co-requisite(s): ED 434L

ED 434L - Field Experience Lab

3 Credit(s)

Senior Block component. Labs scheduled one day per week, eight hours per day. Students complete field hours as arranged by the Teacher Education office. Reflections and proficiencies demonstrated during this experience meet requirements for evidences related to concurrent (senior block) courses. Supervision is provided by senior block course instructors. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

Student Teaching

ED 435 - Student Teaching - Elementary

1 to 15 Credit(s)

This field experience serves as a culmination of the teacher licensure program and provides student teachers with a comprehensive experience in a public school setting. Students must complete all components outlined in the Student Teaching Handbook. A team of faculty supervisors and mentors will help the student teacher acquire the necessary skills in the practice of building a community of learners while teaching and learning. The community of learners includes the student teacher, the cooperating mentor teacher, the university field supervisor, the building principal, and the classroom students. This student teaching experience requires a minimum of 640 hours of contact time.

Prerequisite(s):

Admission to Ed Prep Program; Permission to Student Teach; Clear Fingerprint background check

Bachelor of Arts in Elementary Education Licensure, Culturally and Linguistically Diverse Education (CLD) Emphasis

Go to: Bachelor of Arts in Elementary Education

Required CLD Courses

CLD 401 - Introduction to the Study of Language

3 Credit(s)

This course provides prospective teachers with an overview of the study of language and how it works. It is an introduction to the scientific study of language and linguistics. The course provides for examination of relevant theories of language and how language is acquired as well as cognitive, societal and cultural considerations affecting its use. Specific topics to be examined include: the structure of languages, grammatical constructs (e.g., morphology, syntax, semantics, phonetics, phonology, and discourse), the interactions between language use and social structures, and the representation of language in the brain. Instructional applications will be considered. The course presupposes no formal study or knowledge of language/ linguistics.

Prerequisite(s):

Clear Fingerprint background check

CLD 402 - Language and Culture

3 Credit(s)

This course explores the peculiar relationship between language and the cultural total of which the language is a part, including the connection between cultural identity and heritage language. It examines language variations within a community according to gender, age, geography, ethnicity, socioeconomic class and level of education. Specifically, the course deals with the linguistic factors characterizing differences in language and with the social and social-psychological variables associated with these differences. Attention is given to the different varieties of language within a speech community (e.g., dialect, register, and style) and the societal and cultural factors that define their use. Course content considers the educational, political and economic implications. The course presupposes no formal study or knowledge of language/ linguistics. Accordingly, the course focuses on the different ways people speak. It deals with the linguistic factors characterizing differences in language and with the social and social-psychological variables associated with these differences. Thus, having completed the course, students should (a) be aware of the different linguistic choices available to speakers in different social/ cultural contexts, (b) have an understanding of the factors which influence the choosing of one variety over another and the societal implications of such choices, (c) gain an appreciation for language diversity and cultural pluralism and, for those in teacher education programs, and, for education majors, (d) be able to demonstrate ability to identify and adapt instructional applications that are responsive to learners from different cultural backgrounds.

Prerequisite(s):

Clear Fingerprint background check

CLD 403 - Second Language Acquisition

3 Credit(s)

Introduction to second language acquisition (SLA) theory and the application of SLA theory to second/foreign language teaching practices. Explores what it means to know a language and, hence, how one learns/ acquires a second language. The emphasis in the course is to provide an opportunity to become familiar with up-to-date major theories of language acquisition (e.g., linguistic, psychological, sociological, etc.). That is, what happens in the mind of L1 learners and expand to 2L learners. This is not a methodology course, though certain methods and approaches will be discussed as they are direct applications of 2L theories. Instead, students will be exposed to what research data show about the complex process of learning a second language, and to teach them how to rely on these data to understand a number of major models (theories) of 2LL and, as a result, be able to use this knowledge to evaluate different methods, materials and assessments for 2LL/CLD populations. The course presupposes no formal study or knowledge of language/ linguistics. As part of the course content, we will seek to foster cultural sensitivity to the diverse student population becoming increasingly prevalent in classrooms in the U.S. We will also be concerned with providing the

basic skills needed to satisfactorily assess the suitability of diverse 2LL methodologies & programs to meet the needs of limited English proficiency (LEP) students. An underlying assumption of the course is that learning is a social process that takes place within the broader social milieu of the learner's speech community. Accordingly, 2L learners bring into the classroom diverse language and cultural backgrounds, as well as a unique set of competencies, skills, sensitivities, goals, and needs. In order to provide for a successful learning environment, teachers must be able to identify and relate to the diversity inherent in today's student population and be able to take affirmative steps towards addressing the needs of the students in their classrooms. Course content and activities will assist participants in developing a greater appreciation of democracy and diversity in the classroom as we prepare for a global society as reflected in current theories of 2L acquisition.

Prerequisite(s):

Clear Fingerprint background check

Select 3 Elective Courses

CLD 404 - TESOL Methods

3 Credit(s)

This course introduces students to the study, philosophy, aims and methods of teaching English as a second (or foreign language) with an emphasis upon the techniques and materials in current use. It aims at providing for examination of current theory and empirical data on language learning, as well as for scrutinizing pertinent pedagogical implications/applications for the TESOL K-12/ CLD classroom intended to address the language needs of non-native speakers of English. In addition, the course reviews research-based instructional methodologies applicable to teaching language through the content areas. The course considers the large storehouse of information; currently available on how to successfully tap into this knowledge in order to develop and implement sound methodological approaches which will assist SL/ CLD learners in becoming proficient in the target language and successful in the academic content areas. Content addresses teachers' need to rely on effective instructional approaches and strategies that promote a climate that is conducive to opportunities for active involvement in learning about language, academic content, about classmates, and about the whole world. The course examines a synthesis of current 2L theory that should serve as the basis for development, selection, and modification of suitable materials and methods that will predictably be conducive to successful learning in both the language and content area classroom.

Prerequisite(s):

Clear Fingerprint background check

CLD 405 - TESOL Reading

3 Credit(s)

This course introduces students interested in questions of language acquisition to the theories and practices relating to learning to read in a second language or second dialect. Topics included are models for acquiring foreign language reading skills, teaching strategies for second language/dialect literacy, evaluating literacy skills, current research about acquisition of literacy skills, and political and social implications of second language/dialect literacy. The content addresses specifics about teaching reading for ELL/ CLD populations in classrooms. Opportunity is provided for candidates to become familiar with resources and data on school populations. The main goal of this course is to assist practicing or prospective teachers to learn how to promote development or crucial reading skills among ELL students. The course seeks to reexamine the pedagogical issues central to the 2L reading classroom, to be able to select suitable materials, to develop appropriate reading activities, to identify valid assessment measures, and to plan effective reading lessons suitable for instruction of ESL/CLD students.

Prerequisite(s):

Clear Fingerprint background check

CLD 406 - TESOL Writing**3 Credit(s)**

This course introduces students interested in questions of language acquisition to the theories and practices of learning to write in a second language or second dialect. Topics included are 2L literacy development, writing theory, writing strategies, and 2L writers and rhetorical concerns. In addition, content examines teaching methodologies for second language/dialect literacy, assessment/evaluation of literacy skills, current research about acquisition of literacy skills, and political, cultural and social implications of ESL/ CLD literacy development. The main goal of this course is to assist practicing or prospective teachers to develop proficiency in promoting development of crucial 2L literacy/ writing skills among English Language Learners (ELLs). Content is responsive to the need to reexamine pedagogical issues central to the 2L writing classroom, and also be able to select suitable materials, to develop appropriate activities that address both second language literacy and content area knowledge, to identify valid assessment measures, to integrate technology into classrooms and to plan effective writing lessons suitable to the 2L classroom. Lastly, as part of the course content, we will seek to foster cultural sensitivity to the diverse student population becoming increasingly prevalent in classrooms in the U.S. We will also be concerned with providing the basic skills needed to satisfactorily assess the suitability of diverse 2LL methodologies & programs to meet the needs of limited English proficiency (LEP) students. An underlying assumption of the course is that learning is a social process that takes place within the broader social milieu of the learner's speech community. Accordingly, 2L learners bring into the classroom diverse language and cultural backgrounds, as well as a unique set of competencies, skills, sensitivities, goals, and needs. They may also bring with them different levels of L1 literacy skills. In order to provide for a successful learning environment, teachers must be able to identify and relate to the diversity inherent in today's student population and be able to take affirmative steps towards addressing the needs of the students in their classrooms. Course content and activities will assist participants in developing a greater appreciation of democracy and diversity in the classroom as we prepare for a global society as reflected in current theories of 2L development for academic purposes.

Prerequisite(s):

Teacher Education Background Check Passed

CLD 407 - TESOL Tests & Measurements**3 Credit(s)**

This course examines language assessments in TESOL/ CLD. Course contents is intended to provide a practical and comprehensive overview of the different phases and activities involved in developing and implementing sound, rational, and effective language assessment instruments and activities. The course recognizes the relevance of context, purposiveness, and realistic discourse in testing. Specifically, the initial segment of the course will emphasize an integrated approach to educating English language learners (ELL) students, which encompasses social, cognitive, academic as well as linguistic dimensions and how to better assess the language instruction needs of ESL/CLD students. The course will focus on the practical applications of fundamental assessment principles, as well as development and evaluation of teacher-generated instruments for placement and diagnosis. Content discusses various principles for guiding either practicing and prospective teachers through an assessment process mindful of standards-based instruction (e.g., dictation, cloze summary, oral interview, role-plays, portfolio assessment techniques) for teaching ESL/ CLD students at various levels. Specific topics addressed include, 1. Innovative means of assessing reading ability, 2. Standards and performance outcomes, 3. Evaluating writing & reading, 4. Computers in assessment, as well as computer-based tests, 5. Interpretation of summative assessments of content knowledge, 6. Administration and interpretation of the results of summative assessments of English language proficiency, 7. Development, administration and interpretation of the results of formative assessments, 8. Theoretical and practical foundations of assessment for CLD populations, 9. Practices and approaches to testing that is responsive to varied measurement contexts, 10. Evaluation of reliability and validity of measures, and a variety of techniques available that.

Prerequisite(s):

Clear Fingerprint background check

CLD 408 - Bilingualism**3 Credit(s)**

This course is a study of what it means to be a bilingual child or adult. It explores both the mind's role in bilingualism and in language acquisition as well as societal considerations. It surveys educational systems' response to language variance among students and explores the social, academic and language learning consequences of growing up bilingual. Content seeks to familiarize students with various aspects of bilingual education and language contact from a social-psychological perspective. It aims at providing for analysis and evaluation of current theory and research on bilingualism, as well as for examination of pertinent pedagogical implications/applications. First, we are interested in both social and individual factors related to bilingualism. That is, how and why bilingualism originates both as an individual and a societal phenomenon, and the social-psychological consequences of the same. Accordingly, we will consider topics such as: language attitudes, language and nation, bilingualism and inter-group relations, speech style and social evaluation. Second, we will also consider some important aspects of language contact such as: linguistic borrowing; code switching; language maintenance and language shift; English as a language of wider communication; language and context; diglossia; conversational interactions; language policy; language and culture. Third, we will also examine some significant aspects of the psychology of bilingualism. Specific topics to be covered are: cognitive and sociocultural consequences of bilingualism; neurolinguistic aspects of language acquisition and bilingualism; theoretical and research issues of bilingual education; performance of bilingual children on standardized tests; alternative approaches to testing and assessment of bilinguals; the teaching of English to non-native English speakers in the state of Colorado. NOTE: A supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

CLD 479 - Special Topics**0.5 to 6 Credit(s)**

Offered periodically to meet the needs of students.

Prerequisite(s):

Clear Fingerprint background check

Plus Additional Elementary Education Licensure Requirements from the School of Education

Bachelor of Arts in Elementary Education

Bachelor of Arts, K-12 Education Licensure

Go to: Educational Preparation

Undergraduate students typically enter the program in their sophomore or junior year, after completing the Undergraduate General Education Requirements, content coursework, and requirements for their academic major. Students may apply for admission to the Teacher Education Preparation Program, and if admitted, follow the stages of the program.

Choose a Major, and Complete those Requirements

- Bachelor of Arts in Art Education, K-12 Licensure
- Bachelor of Arts in Music Education, K-12 Licensure

Complete the Licensure Requirements

ED 200 - Perspectives of Teaching and Learning

3 Credit(s)

A study of school, societal and cultural issues and their influences on teaching and learning. As an introductory course, the purpose is to learn about teaching as a career choice, the historical development of American education, social and political structures in the schools, and power groups influencing educational policy. Issues of educational reform will include civil rights, students' rights, ethnic, gender and racial issues, individualizing instructions, special education, learning theory models, (inclusive of diversity issues related to electronic media) and alternative school structures. Emphasis is placed on the orientation and development of a proficient and reflective professional educator. A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

ED 220 - The Exceptional Learner

3 Credit(s)

This course is designed to survey the foundations of special education, including historical, philosophical perspectives, legal issues and current trends in instruction and programming. Students will explore the role of general education as it relates to the education of the student with exceptional needs. Emphasis will be placed on developing knowledge of various disabling conditions, available resources and educational alternatives. Students will learn about the ethical and sociopolitical influences on prevention, intervention and educational programs for students with special needs, from birth through post-secondary ages. Learning characteristics and the diverse needs of students who receive special education services will also be studied. From a pedagogically sound, as well as developmentally appropriate perspective, the similarities and differences within and between exceptionalities and typical development will be emphasized. A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office PRIOR to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

ED 345 - Educational Psychology

3 Credit(s)

Designed to explore the background of educational psychology. Major topic areas include: research, value and utilization, student characteristics and diversity, learning theories and their application, motivation, teaching methods and practices, evaluating student learning, and standardized measurements. Students will develop increased ability to understand and assess the interrelationships of intellectual, cognitive, instructional, personality, social and cultural influences, theories, and factors as they affect the learning environments. Students will cover assessment procedures, analysis of data, legal and ethical responsibilities as part of necessary research and evaluation within the school learning environment. Emphasis is placed on developing knowledge of historical and current research and its meaning for interaction and planning in the school setting.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

ED 347 - Teaching, Learning, and Technology

3 Credit(s)

This course is an introduction to the theories and applications of appropriate and effective uses of technology to achieve pedagogical goals. Content includes exploring emerging technologies, designing lessons aligned to the Colorado Essential Skills, integrating digital tools to strengthen teaching and improve student learning, identifying guidelines for designing and implementing online learning environments, comparing various theories of teaching and learning related to the design of virtual lessons/online programs, and describing effective instructional strategies for online learning. Using technology in K-12 classrooms is relevant to prepare students for success in post-secondary and workforce settings.

Prerequisite(s):

Clear Fingerprint background check

Pass PRAXIS II

Complete Senior Block

- Students must be admitted to the Teacher Education Preparation Program before they complete the Senior Block
- Students must earn a grade of C or better in each of the Senior Block courses.
- Senior Block courses must be taken concurrently.

ED 414 - Inclusive and Safe Classroom Management

3 Credit(s)

This course explores the foundational principles of effective classroom instruction, behavior evaluation, and management techniques while promoting a safe and healthy school environment. This course equips candidates with critical thinking skills to design and implement successful classroom management strategies, emphasizing student achievement through effective time management, communication, and record-keeping procedures. Candidates will also develop comprehensive management plans. Candidates will examine school law and professional ethics for educators. They will gain insights into the legal and ethical frameworks that guide their roles as educators, ensuring they are well-prepared to uphold the highest standards of professionalism and integrity. The content of this course addresses health and wellness topics, including conflict resolution, mediation, nutrition, emergency protocols, and first aid within the

educational setting. Candidates will design and implement SEL curricula, considering diverse student needs and crisis prevention and intervention strategies. This course is essential for educators to create a safe, healthy, and inclusive learning environment.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to the Educator Preparation Program; Clear Fingerprint background check

Co-requisite(s): ED 434L

ED 426 - Pedagogical Strategies for Cultural Competence

3 Credit(s)

This is a dynamic and transformative course designed to equip future educators with the essential knowledge and skills to foster cultural competence in the classroom. Students will engage in learning that enhances their ability to use data to better understand and respond to diversity in their respective schools and communities. They will critically examine the impact of cultural values and bias on school curriculum and teacher practice, while applying strategies aimed at creating more culturally responsive experiences for diverse children. Students will also deepen their understanding and practice in working with vulnerable students and families, including those facing abuse, trauma, generational poverty and other forms of crisis.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

Co-requisite(s): ED 434L

ED 429 - Content Area Literacy

2 Credit(s)

Approaches and strategies for teaching secondary reading in various subject areas. Topics include textbook selection and readability, comprehension skills, study skills, and meeting needs of diverse student populations.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.

- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to the Educator Preparation Program; Teacher Education Background Check Passed

Co-requisite(s): ED 434L

ED 434L - Field Experience Lab

3 Credit(s)

Senior Block component. Labs scheduled one day per week, eight hours per day. Students complete field hours as arranged by the Teacher Education office. Reflections and proficiencies demonstrated during this experience meet requirements for evidences related to concurrent (senior block) courses. Supervision is provided by senior block course instructors. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

ED 455 - Student Teaching K-12

1 to 15 Credit(s)

This field experience serves as a culmination of the teacher licensure program and provides student teachers with a comprehensive experience in a public school setting. Students must complete all components outlined in the Student Teaching Handbook. A team of faculty supervisors and mentors will help the student teacher acquire the necessary skills in the practice of building a community of learners while teaching and learning. The community of learners includes the student teacher, the cooperating mentor teacher, the university field supervisor, the building principal, and the classroom students. This student teaching experience requires a minimum of 640 hours of contact time.

Prerequisite(s):

Admission to Ed Prep Program; Permission to Student Teach; Clear Fingerprint background check

Bachelor of Arts, Secondary Education Licensure

Go to: Educational Preparation

Students preparing to teach in a content area, grades 7-12, must complete an undergraduate degree in a state-approved content area (business, English, mathematics, science, social studies, foreign language) with coursework and field experience in educational practices, content area literacy, and content methods.

Pick Your Academic Major

- Bachelor of Arts in Biology, Science Education Emphasis with Secondary Teacher Licensure

- Bachelor of Arts in Business Administration, Business Teacher Education Emphasis with Secondary Teacher Licensure
- Bachelor of Arts in Chemistry, Science Education Emphasis with Secondary Teacher Licensure
- Bachelor of Arts in English, Secondary Teacher Licensure
- Bachelor of Arts in Geosciences, Science Education Emphasis with Geosciences Secondary Teacher Licensure
- Bachelor of Arts in HAPS, Social Studies Emphasis with Secondary Teacher Licensure
- Bachelor of Arts in Mathematics, Secondary Teacher Licensure
- Bachelor of Arts in Spanish, Secondary Teacher Licensure
- Bachelor of Arts in Theatre, Secondary English Licensure

Complete All Secondary Licensure Requirements

ED 200 - Perspectives of Teaching and Learning

3 Credit(s)

A study of school, societal and cultural issues and their influences on teaching and learning. As an introductory course, the purpose is to learn about teaching as a career choice, the historical development of American education, social and political structures in the schools, and power groups influencing educational policy. Issues of educational reform will include civil rights, students' rights, ethnic, gender and racial issues, individualizing instructions, special education, learning theory models, (inclusive of diversity issues related to electronic media) and alternative school structures. Emphasis is placed on the orientation and development of a proficient and reflective professional educator. A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

ED 220 - The Exceptional Learner

3 Credit(s)

This course is designed to survey the foundations of special education, including historical, philosophical perspectives, legal issues and current trends in instruction and programming. Students will explore the role of general education as it relates to the education of the student with exceptional needs. Emphasis will be placed on developing knowledge of various disabling conditions, available resources and educational alternatives. Students will learn about the ethical and sociopolitical influences on prevention, intervention and educational programs for students with special needs, from birth through post-secondary ages. Learning characteristics and the diverse needs of students who receive special education services will also be studied. From a pedagogically sound, as well as developmentally appropriate perspective, the similarities and differences within and between exceptionalities and typical development will be emphasized. A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office PRIOR to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

ED 345 - Educational Psychology

3 Credit(s)

Designed to explore the background of educational psychology. Major topic areas include: research, value and utilization, student characteristics and diversity, learning theories and their application, motivation, teaching methods and practices, evaluating student learning, and standardized measurements. Students will develop increased ability to understand and assess the interrelationships of intellectual, cognitive, instructional, personality, social and cultural influences, theories, and factors as they affect the learning environments. Students will cover assessment procedures, analysis of data, legal and ethical responsibilities as part of necessary research and evaluation within the school learning environment. Emphasis is placed on developing knowledge of historical and current research and its meaning for interaction and planning in the school setting.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

ED 347 - Teaching, Learning, and Technology

3 Credit(s)

This course is an introduction to the theories and applications of appropriate and effective uses of technology to achieve pedagogical goals. Content includes exploring emerging technologies, designing lessons aligned to the Colorado Essential Skills, integrating digital tools to strengthen teaching and improve student learning, identifying guidelines for designing and implementing online learning environments, comparing various theories of teaching and learning related to the design of virtual lessons/online programs, and describing effective instructional strategies for online learning. Using technology in K-12 classrooms is relevant to prepare students for success in post-secondary and workforce settings.

Prerequisite(s):

Clear Fingerprint background check

Complete Content Methods for your Area

ED 304 - Secondary Teaching and Learning Methods

3 Credit(s)

This course is an introduction to concepts and techniques of imparting state academic standards to middle and high school students. A study of effective teaching methods used in preparing a secondary education majors in Business, Language Arts, Social Studies, and World Languages.

NOTE:

- A 40-hour, pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field-experience. Photo IDs must be obtained PRIOR to the beginning of the field-experience component.
- Field-experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

ED 340 - Methods for Teaching Math - Secondary

3 Credit(s)

This course is designed to support the beginning secondary math teacher. Presuming a solid foundation of conceptual knowledge in the content area, the course emphasizes the development of a framework of instructional knowledge and skills to provide successful learning for all students.

NOTE:

- A 40 hour pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

ED 350 - Methods for Teaching Science - Secondary

3 Credit(s)

This course is designed to support the beginning secondary science teacher. Presuming a solid foundation of conceptual knowledge in the content area, the course emphasizes the development of a framework of instructional knowledge and skills to provide successful learning for all students.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

Pass PRAXIS II

Complete Senior Block (EPP Admission Required)

ED 414 - Inclusive and Safe Classroom Management

3 Credit(s)

This course explores the foundational principles of effective classroom instruction, behavior evaluation, and management techniques while promoting a safe and healthy school environment. This course equips candidates with critical thinking skills to design and implement successful classroom management strategies, emphasizing student achievement through effective time management, communication, and record-keeping procedures. Candidates will also develop comprehensive management plans. Candidates will examine school law and professional ethics for educators. They will gain insights into the legal and ethical frameworks that guide their roles as educators, ensuring they are well-prepared to uphold the highest standards of professionalism and integrity. The content of this course addresses health

and wellness topics, including conflict resolution, mediation, nutrition, emergency protocols, and first aid within the educational setting. Candidates will design and implement SEL curricula, considering diverse student needs and crisis prevention and intervention strategies. This course is essential for educators to create a safe, healthy, and inclusive learning environment.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to the Educator Preparation Program; Clear Fingerprint background check

Co-requisite(s): ED 434L

ED 426 - Pedagogical Strategies for Cultural Competence

3 Credit(s)

This is a dynamic and transformative course designed to equip future educators with the essential knowledge and skills to foster cultural competence in the classroom. Students will engage in learning that enhances their ability to use data to better understand and respond to diversity in their respective schools and communities. They will critically examine the impact of cultural values and bias on school curriculum and teacher practice, while applying strategies aimed at creating more culturally responsive experiences for diverse children. Students will also deepen their understanding and practice in working with vulnerable students and families, including those facing abuse, trauma, generational poverty and other forms of crisis.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

Co-requisite(s): ED 434L

ED 429 - Content Area Literacy

2 Credit(s)

Approaches and strategies for teaching secondary reading in various subject areas. Topics include textbook selection and readability, comprehension skills, study skills, and meeting needs of diverse student populations.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to the Educator Preparation Program; Teacher Education Background Check Passed

Co-requisite(s): ED 434L

ED 434L - Field Experience Lab

3 Credit(s)

Senior Block component. Labs scheduled one day per week, eight hours per day. Students complete field hours as arranged by the Teacher Education office. Reflections and proficiencies demonstrated during this experience meet requirements for evidences related to concurrent (senior block) courses. Supervision is provided by senior block course instructors. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

Complete Student Teaching

ED 445 - Student Teaching - Secondary

1 to 15 Credit(s)

This field experience serves as a culmination of the teacher licensure program and provides student teachers with a comprehensive experience in a public school setting. Students must complete all components outlined in the Student Teaching Handbook. A team of faculty supervisors and mentors will help the student teacher acquire the necessary skills in the practice of building a community of learners while teaching and learning. The community of learners includes the student teacher, the cooperating mentor teacher, the university field supervisor, the building principal, and the classroom students. This student teaching experience requires a minimum of 640 hours of contact time.

Prerequisite(s):

Admission to Ed Prep Program; Permission to Student Teach; Clear Fingerprint background check

Master of Arts in Education, Culturally and Linguistically Diverse (CLD) Endorsement

Go to: Educational Preparation

The five-semester Master of Arts in Education with a Culturally and Linguistically Diverse (CLD) endorsement focuses on the development of sound multicultural teaching competencies and educational leadership for service in schools.

Total degree hours: 33 Credits

Academic Core Requirements for MA Candidates only

ED 507 - Integrated Instruction & Assessment

3 Credit(s)

This course supports candidates in aligning their beliefs and values to develop their teaching identity. Metacognitive processes will help candidates be aware of their own motives and empower them to actively participate in their own learning as they begin to develop their art of teaching. Candidates will design a sequence or unit of study following the Understanding by Design framework which includes digging deeper into formative and summative assessments and interpreting assessment data to teach responsively. Alternative methods of facilitating instruction and assessing student performance and understanding will be investigated and implemented to increase the candidate's understanding of their students' abilities, interests, and needs. Candidate's will also discover strategies for fostering successful community partnerships.

ED 534 - Multicultural Perspectives

3 Credit(s)

This course provides students with an overview of the role of cultural diversity in the classroom and its effect on teaching and learning. While exploring issues of race, class, culture, and power, students will develop a deeper understanding of school demographics, perspectives on teaching and learning and the interaction between pedagogy and culture. Students will gain an understanding about the effects of different social, cultural, linguistic, and cognitive experiences on learner development, the impact this can have on their choices as teachers and leaders.

ED 557 - Research Methods

3 Credit(s)

Research methods is designed to provide candidates in the program with background knowledge of quantitative and qualitative research methods. The course will help candidates evaluate the appropriateness of each method when designing a research project. Candidates will develop mini- proposals for each type of research in preparation for implementing and reporting on their own research project.

Cognate Requirements (24 Credits)

CLD 501 - Introduction to the Study of Language

3 Credit(s)

This course provides prospective teachers with an overview of the study of language and how it works. It is an introduction to the scientific study of language and linguistics. The course provides for examination of relevant theories of language and how language is acquired as well as cognitive, societal and cultural considerations affecting its use. Specific topics to be examined include: the structure of languages, grammatical constructs (e.g., morphology, syntax, semantics, phonetics, phonology, and discourse), the interactions between language use and social structures,

and the representation of language in the brain. Instructional applications will be considered. The course presupposes no formal study or knowledge of language/ linguistics.

Prerequisite(s):

Admission to the Graduate School

CLD 502 - Language and Culture

3 Credit(s)

This course explores the peculiar relationship between language and the cultural total of which the language is a part, including the connection between cultural identity and heritage language. It examines language variations within a community according to gender, age, geography, ethnicity, socioeconomic class and level of education. Specifically, the course deals with the linguistic factors characterizing differences in language and with the social and social-psychological variables associated with these differences. Attention is given to the different varieties of language within a speech community (e.g., dialect, register, and style) and the societal and cultural factors that define their use. Course content considers the educational, political and economic implications. The course presupposes no formal study or knowledge of language/ linguistics.

Accordingly, the course focuses on the different ways people speak. It deals with the linguistic factors characterizing differences in language and with the social and social-psychological variables associated with these differences. Thus, having completed the course, students should (a) be aware of the different linguistic choices available to speakers in different social/ cultural contexts, (b) have an understanding of the factors which influence the choosing of one variety over another and the societal implications of such choices, (c) gain an appreciation for language diversity and cultural pluralism and, for those in teacher education programs, and, for education majors, (d) be able to demonstrate ability to identify and adapt instructional applications that are responsive to learners from different cultural backgrounds.

Prerequisite(s):

Admission to the Graduate School

CLD 503 - Second Language Acquisition

3 Credit(s)

Introduction to second language acquisition (SLA) theory and the application of SLA theory to second/foreign language teaching practices. Explores what it means to know a language and, hence, how one learns/ acquires a second language. The emphasis in the course is to provide an opportunity to become familiar with up-to-date major theories of language acquisition (e.g., linguistic, psychological, sociological, etc.). That is, what happens in the mind of L1 learners and expand to 2L learners. This is not a methodology course, though certain methods and approaches will be discussed as they are direct applications of 2L theories. Instead, students will be exposed to what research data show about the complex process of learning a second language, and to teach them how to rely on these data to understand a number of major models (theories) of 2LL and, as a result, be able to use this knowledge to evaluate different methods, materials and assessments for 2LL/CLD Introduction to second language acquisition (SLA) theory and the application of SLA theory to second/foreign language teaching practices. Explores what it means to know a language and, hence, how one learns/ acquires a second language. The emphasis in the course is to provide an opportunity to become familiar with up-to-date major theories of language acquisition (e.g., linguistic, psychological, sociological, etc.). That

is, what happens in the mind of L1 learners and expand to 2L learners. This is not a methodology course, though certain methods and approaches will be discussed as they are direct applications of 2L theories. Instead, students will be exposed to what research data show about the complex process of learning a second language, and to teach them how to rely on these data to understand a number of major models (theories) of 2LL and, as a result, be able to use this knowledge to evaluate different methods, materials and assessments for 2LL/CLD populations. The course presupposes no formal study or knowledge of language/ linguistics. As part of the course content, we will seek to foster cultural sensitivity to the diverse student population becoming increasingly prevalent in classrooms in the U.S. We will also be concerned with providing the basic skills needed to satisfactorily assess the suitability of diverse 2LL methodologies & programs to meet the needs of limited English proficiency (LEP) students. An underlying assumption of the course is that learning is a social process that takes place within the broader social milieu of the learner's speech community. Accordingly, 2L learners bring into the classroom diverse language and cultural backgrounds, as well as a unique set of competencies, skills, sensitivities, goals, and needs. In order to provide for a successful learning environment, teachers must be able to identify and relate to the diversity inherent in today's student population and be able to take 'affirmative steps' towards addressing the needs of the students in their classrooms. Course content and activities will assist participants in developing a greater 'appreciation of democracy and diversity' in the classroom as we prepare for a global society as reflected in current theories of 2L acquisition.

TESOL Topics and Elective Courses *

CLD 504 - TESOL Methods

3 Credit(s)

This course introduces students to the study, philosophy, aims and methods of teaching English as a second (or foreign language) with an emphasis upon the techniques and materials in current use. It aims at providing for examination of current theory and empirical data on language learning, as well as for scrutinizing pertinent pedagogical implications/ applications for the TESOL K-12/ CLD classroom intended to address the language needs of non-native speakers of English. In addition, the course reviews research-based instructional methodologies applicable to teaching language through the content areas. The course considers the large 'storehouse of information' currently available on how to successfully tap into this knowledge in order to develop and implement sound methodological approaches which will assist SL/ CLD learners in becoming proficient in the target language and successful in the academic content areas. Content addresses teachers need to rely on effective instructional approaches and strategies that promote a climate that is conducive to opportunities for active involvement in learning about language, academic content, about classmates, and about the whole world. The course examines a synthesis of current 2L theory that should serve as the basis for development, selection, and modification of suitable materials and methods that will predictably be conducive to successful learning in both the language and content area classroom.

CLD 505 - TESOL Reading

3 Credit(s)

This course introduces students interested in questions of language acquisition to the theories and practices relating to learning to read in a second language or second dialect. Topics included are models for acquiring foreign language reading skills, teaching strategies for second language/dialect literacy, evaluating literacy skills, current research about acquisition of literacy skills, and political and social implications of second language/dialect literacy. The content addresses specifics about teaching reading for ELL/ CLD populations in classrooms. Opportunity is provided for candidates to become familiar with resources and data on school populations. The main goal of this course is to assist practicing or prospective teachers to learn how to promote development or crucial reading skills among ELL students. The course seeks to reexamine the pedagogical issues central to the 2L reading classroom, to be able to select suitable materials, to develop appropriate reading activities, to identify valid assessment measures, and to plan effective reading lessons suitable for instruction of ESL/CLD students.

CLD 506 - TESOL Writing

3 Credit(s)

This course introduces students interested in questions of language acquisition to the theories and practices of learning to write in a second language or second dialect. Topics included are 2L literacy development, writing theory, writing strategies, and 2L writers and rhetorical concerns. In addition, content examines teaching methodologies for second language/dialect literacy, assessment/evaluation of literacy skills, current research about acquisition of literacy skills, and political, cultural and social implications of ESL/ CLD literacy development. The main goal of this course is to assist practicing or prospective teachers to develop proficiency in promoting development of crucial 2L literacy/ writing skills among English Language Learners (ELLs). Content is responsive to the need to reexamine pedagogical issues central to the 2L writing classroom, and also be able to select suitable materials, to develop appropriate activities that address both second language literacy and content area knowledge, to identify valid assessment measures, to integrate technology into classrooms and to plan effective writing lessons suitable to the 2L classroom. Lastly, as part of the course content, we will seek to foster cultural sensitivity to the diverse student population becoming increasingly prevalent in classrooms in the U.S. We will also be concerned with providing the basic skills needed to satisfactorily assess the suitability of diverse 2LL methodologies & programs to meet the needs of limited English proficiency (LEP) students. An underlying assumption of the course is that learning is a social process that takes place within the broader social milieu of the learner's speech community. Accordingly, 2L learners bring into the classroom diverse language and cultural backgrounds, as well as a unique set of competencies, skills, sensitivities, goals, and needs. They may also bring with them different levels of L1 literacy skills. In order to provide for a successful learning environment, teachers must be able to identify and relate to the diversity inherent in today's student population and be able to take 'affirmative steps' towards addressing the needs of the students in their classrooms. Course content and activities will assist participants in developing a greater 'appreciation of democracy and diversity' in the classroom as we prepare for a global society as reflected in current theories of 2L development for academic purposes.

CLD 507 - TESOL Tests and Measurement

3 Credit(s)

This course examines language assessments in TESOL/ CLD. Course contents is intended to provide a practical and comprehensive overview of the different phases and activities involved in developing and implementing sound, rational, and effective language assessment instruments and activities. The course recognizes the relevance of context, purposiveness, and realistic discourse in testing. Specifically, the initial segment of the course will emphasize an integrated approach to educating English language learners (ELL) students, which encompasses social, cognitive, academic as well as linguistic dimensions and how to better assess the language instruction needs of ESL/CLD students. The course will focus on the practical applications of fundamental assessment principles, as well as development and evaluation of teacher-generated instruments for placement and diagnosis. Content discusses various principles for guiding either practicing and prospective teachers through an assessment process mindful of standards-based instruction (e.g., dictation, cloze summary, oral interview, role-plays, portfolio assessment techniques) for teaching ESL/ CLD students at various levels.

CLD 508 - Bilingualism

3 Credit(s)

This course is a study of what it means to be a bilingual child or adult. It explores both the mind's role in bilingualism and in language acquisition as well as societal considerations. It surveys educational systems response to language variance among students and explores the social, academic and language learning consequences of growing up bilingual. Content seeks to familiarize students with various aspects of bilingual education and language contact from a social-psychological perspective. It aims at providing for analysis and evaluation of current theory and research on bilingualism, as well as for examination of pertinent pedagogical implications/applications. First, we are interested in both social and individual factors related to bilingualism. That is, how and why bilingualism originates both as an

individual and a societal phenomenon, and the social-psychological consequences of the same. Accordingly, we will consider topics such as: language attitudes, language and nation, bilingualism and inter-group relations, speech style and social evaluation. Second, we will also consider some important aspects of language contact such as: linguistic borrowing; code switching; language maintenance and language shift; English as a language of wider communication; language and context; diglossia; conversational interactions; language policy; language and culture. Third, we will also examine some significant aspects of the psychology of bilingualism. Specific topics to be covered are: cognitive and sociocultural consequences of bilingualism; neurolinguistic aspects of language acquisition and bilingualism; theoretical and research issues of bilingual education; performance of bilingual children on standardized tests; alternative approaches to testing and assessment of bilinguals; the teaching of English to non-native English speakers in the State of Colorado.

CLD 509 - TESOL Practicum/Capstone

3 Credit(s)

This course explores fundamental instructional considerations in TESOL by providing a school-based practical experience. This is a eight (8) week course under the direction of an experienced teacher/mentor and a university supervisor that provides classroom experience in an additional area of teaching certification for those who already hold certification in one area. Interns will observe teaching, participate in work with students (K-12), participate in planning sessions, teach and participate in all activities for which regularly employed teachers are responsible. This course is the culminating experience for the MA in Education with CLD Endorsement. A copy of the final summative teaching evaluation is placed in the candidates file in the Teacher Education Department. All candidates are expected to demonstrate the basic skills relative to all teaching skills, such as lesson planning, unit planning, classroom management, effective instructional approaches, appropriate selection of materials, and knowledge of the teaching-learning process prior to being recommended for TESOL K-12 certification. Instruction should demonstrate alignment with the Colorado CLD Competencies. Candidates are required to teach at least six (6) lessons at an appropriate level (i.e., K-6, 7-12). As part of the evidence of competence to provide effective instruction in English as a Second Language/ CLD, class participants are required to generate a Professional Portfolio aligned of the Colorado CLD Competencies, aligned with the five TESOL/CAPE domain areas and to successfully pass a TESOL Portfolio Exit Interview.

CLD 579 - Special Topics in CLD

3 Credit(s)

This is a tutorial course that entails an examination of selected topics of education as they relate directly to first and second language learning, pedagogy, bilingualism, multicultural education and assessment. The course may focus on different semesters on such topics as phonology and language learning, psycholinguistics and bilingualism, or teaching English in the content area classroom. This course may be repeated for credit once under different course subtitle. Prerequisite: consent of instructor. Course content is aligned with Colorado Culturally and Linguistically Diverse Competencies (CLD) and TESOL Teacher Preparation Standards. Students wishing to take a topics course must have a subject of study in mind which they wish to pursue; subjects or topics will not be furnished for them. Each student must have permission from the Chairman of the Teacher Education Department. Each student must design a program of study meeting the supervisory faculty member's approval. The CLD-579 - Topics in CLD or TESOL form must be filled out in triplicate (one for the student, one for the faculty member, one for the English Department Chairman) and approved prior to enrollment in CLD-579. Student enrollment without such approval will be cancelled. A student enrolled in CLD-579 will have one bi-weekly conference throughout the semester with the supervising faculty member (may take place via online).

Note

- Specific course content may vary based on instructor availability and topic demand.

- *15 Credits required for Post baccalaureate TESOL Certificate
- To add Endorsement Application, go to Colorado Department of Education's website, and complete "Application for an Added Endorsement Based on an Approved Program."

Master of Arts in Education, Curriculum and Instruction Emphasis

The goal of the five-semester Curriculum and Instruction emphasis is to develop strong planning and teaching skills in educators who are dedicated to ensuring all students, particularly students from diverse cultural and linguistic backgrounds, succeed academically.

Total credits: 30, including M.A. Academic Core of 9 credits

Academic Core Requirements for MA Candidates only

ED 507 - Integrated Instruction & Assessment

3 Credit(s)

This course supports candidates in aligning their beliefs and values to develop their teaching identity. Metacognitive processes will help candidates be aware of their own motives and empower them to actively participate in their own learning as they begin to develop their art of teaching. Candidates will design a sequence or unit of study following the Understanding by Design framework which includes digging deeper into formative and summative assessments and interpreting assessment data to teach responsively. Alternative methods of facilitating instruction and assessing student performance and understanding will be investigated and implemented to increase the candidate's understanding of their students' abilities, interests, and needs. Candidate's will also discover strategies for fostering successful community partnerships.

ED 534 - Multicultural Perspectives

3 Credit(s)

This course provides students with an overview of the role of cultural diversity in the classroom and its effect on teaching and learning. While exploring issues of race, class, culture, and power, students will develop a deeper understanding of school demographics, perspectives on teaching and learning and the interaction between pedagogy and culture. Students will gain an understanding about the effects of different social, cultural, linguistic, and cognitive experiences on learner development, the impact this can have on their choices as teachers and leaders.

ED 557 - Research Methods

3 Credit(s)

Research methods is designed to provide candidates in the program with background knowledge of quantitative and qualitative research methods. The course will help candidates evaluate the appropriateness of each method when designing a research project. Candidates will develop mini- proposals for each type of research in preparation for implementing and reporting on their own research project.

Electives

ED 586 - Education Creation and Entrepreneurial Teachers

3 Credit(s)

The Educating Creative and Entrepreneurial Learners course will examine a variety of instructional strategies to foster engagement, understanding, and inquiry. This course will focus on student-directed and differentiated experiences to increase rigor and deepen learning.

ED 587 - Mentor Teacher Seminar I

3 Credit(s)

The Mentoring and Coaching Seminar I course is the co-requisite for ED 588 Mentoring and Coaching Internship I. This seminar course will support educators in developing their art of mentoring and coaching through intention, planning, practice, and reflection to actively engage in enhancing teaching practices and addressing systemic issues to aid in the transformation of schools.

Co-requisite(s): Admission to Mentor Endorsement Program and **ED 588**

ED 588 - Mentoring and Coaching Internship I

3 Credit(s)

The Mentoring and Coaching Internship I course is the co-requisite for ED 587 Mentor Seminar I. This internship will support educators in developing their art of mentoring and coaching through intention, planning, practice, and reflection to actively engage in enhancing teaching practices and addressing systemic issues to aid in the transformation of schools.

Grade Mode: P/F

Prerequisite(s):

Admission to Mentor Endorsement Program and **ED 587**

ED 590 - PLCs: Collaboration and Collective Responsibility

3 Credit(s)

Creating Collaborative Cultures and Collective Responsibility through Professional Learning Communities will challenge educators to alter long-held assumptions, beliefs, expectations, and habits. Candidates will examine the influences of beliefs and norms on classroom and school cultures. Additionally, candidates will explore how Professional Learning Communities can dramatically improve school performance, student engagement, and the self-efficacy of educators.

ED 591 - Capstone Project II

3 Credit(s)

In this Capstone II course educators will continue engaging in the action research process which involves collecting and analyzing data, reporting the results, and taking informed action. Educators will continue to reflect on and define their purpose for action research which may include building the reflective practitioner, making progress on school wide priorities, and building professional cultures. While planning and conducting action research, educators will respect the ethical obligations that educational researchers have and adhere to the codes and procedures involved.

ED 594 - Mentor Teacher Seminar II

3 Credit(s)

This internship will support educators in developing their art of mentoring and coaching through intention, planning, practice, and reflection to actively engage in enhancing teaching practices and addressing systemic issues to aid in the transformation of schools.

Prerequisite(s):

Admission to Mentor Endorsement Program and completion of ED 587

Co-requisite(s): ED 595

ED 595 - Mentoring and Coaching Internship II

3 Credit(s)

This internship will support educators in developing their art of mentoring and coaching through intention, planning, practice, and reflection to actively engage in enhancing teaching practices and addressing systemic issues to aid in the transformation of schools.

Grade Mode: P/F

Prerequisite(s):

Admission to Mentor Endorsement Program and completion of ED 588

Co-requisite(s): ED 594

ED 643 - Capstone I

3 Credit(s)

In this Capstone I course, educators will investigate the action research process which involves selecting a focus, identifying research questions, conducting a review of the literature, and generating a plan. Educators will reflect on and define their purpose for action research which may include building the reflective practitioner, making progress on school wide priorities, and building professional cultures. While planning and conducting action research, educators will recognize the ethical obligations that educational researchers have and adhere to the codes and procedures involved.

Additional Elective Requirements (9 Credits or equivalent)

Students will take or transfer in 9 semester hours of elective in an emphasis of their choice. Courses must be submitted to the Graduate Coordinator for approval.

Master of Arts in Education, Educational Leadership Program (Principal License)

The six-semester Educational Leadership program is designed to equip qualified and experienced educators with the knowledge and skills necessary to assume leadership positions in schools, particularly those of program supervisor/director or building principal/assistant principal. Studies include leadership; curriculum, instruction, and assessment; and school management, law and finance. The program emphasizes the role of a school leader as a collaborator and creator of a supportive and stimulating environment for children and teachers.

This course of study leads to a State of Colorado principal license.

Cognate Requirements

ED 503 - Understanding the Principalship

3 Credit(s)

This course is an introduction to the Principal Licensure program with assessment components, grounded in the Colorado's Principal Quality Standards, English Language Learner Standards, READ Act School Administrator Standards, and Standards for Educator Effectiveness. Candidates will be expected to critically examine each of Standards in terms of how they are implemented through policies and practices within their own districts while making recommendations for improving such policies based on current research and best practice.

Prerequisite(s):

Admission to principal licensure program

ED 505 - Inclusive and Responsive School Leadership

3 Credit(s)

This course will focus on how effective principals use inclusive and responsive leadership to promote equity among students, staff and the community. Candidates will draw upon research, theory and best-practice in diversity, equity and inclusion (DEI) to develop their skills in creating safe school environments that maximize support for student and staff well being and meaningful engagement with families and communities.

Prerequisite(s):

Admission to principal licensure program

ED 508 - School Law and Finance

3 Credit(s)

This course will provide an opportunity for administrative candidates to examine the ways in which legal and financial structures impact the operation of a school. Emphasis will be placed on legal obligations of school leaders and how these work in tandem with school funding processes to inform local policies, budgets, and administrative practices.

Prerequisite(s):

Admission to principal licensure program

ED 510 - Strategic and Ethical School Leadership

3 Credit(s)

This course will focus on how effective principals use strategic and ethical leadership to achieve strategic goals for students, educators, and themselves. Candidates will draw upon research, theory and best-practice to develop their skills in shared visioning, educator recruitment and hiring, educator retention and development, distributed leadership and leveraging strategic partnerships and resources sharing to achieve school and district goals.

Prerequisite(s):

Admission to principal licensure program

ED 515 - Principal Licensure Intern I

1 Credit(s)

During this 50 hour internship, field experience under the supervision of two building principals, one of which cannot be the building where the candidate is currently working or has worked, candidates will demonstrate competencies in the subject areas of Colorado Academic Standards, schools and society.*This course will also introduce administrative candidates to Action Research Project.*Students will pick a topic of educational interest or importance to be completed by the end of the endorsement*Students will be introduced to the IRB process and research procedures*Students will choose relevant educational topic(s)*Students will submit topic for approval (faculty and university)The principal internships will supplement the research and IRB process.

Prerequisite(s):

ED 503 Minimum Grade: B

ED 525 - Principal Licensure Intern II

1 Credit(s)

During this 50 hour internship, field experience under the supervision of two building principals (one of which cannot be in the building where the candidate is currently working or has worked) candidates will demonstrate competencies in the subject areas of finance and school law. This course will also continue with administrative candidates Action Research Project.

Prerequisite(s):

ED 505 Minimum Grade: B

AND

ED 508 Minimum Grade: B

AND

ED 515 Minimum Grade: P

ED 528 - Instructional Leadership

3 Credit(s)

This course will prepare school leaders to assume roles as effective instructional leaders by implementing evidence-based practices in schoolwide management and improvement within a standards-based environment. Emphasis will be placed on managing curriculum and assessment in alignment with P-20 standards, supporting educator effectiveness through professional development and coaching, and supporting diverse students and families through tiered systems and responsive practices that honor diversity, equity and inclusion (DEI).

Prerequisite(s):

Admission to principal licensure program

ED 529 - Supervision and Evaluation of Instruction

3 Credit(s)

This course will prepare candidates for the supervision and evaluation of PK-12 educators to support effective instruction and enhance the academic achievement of PK-12 students. Candidates will gain an understanding best practices in observation, feedback, and using coaching modules to support educator reflection and growth. Candidates will also explore the role that potential bias can play in educator evaluation and develop skills for mitigating such bias within their practices as educational leaders.

Prerequisite(s):

Admission to principal licensure program

ED 535 - Principal Licensure Internship III

1 Credit(s)

During this 50 hour internship, field experience under the supervision of two building principals (one of which cannot be in the building where the candidate is currently working or has worked) candidates will demonstrate competencies in the subject areas of managing curriculum, instruction and assessment, supervision for improvement of instruction and building level assessment. Each area will include reflection papers and 50 hours of logged internship during the semester.

Prerequisite(s):

ED 525 Minimum Grade: B

ED 545 - Principal Licensure Internship IV

3 Credit(s)

During this 150 hour internship, field experience under the supervision of two building principals (one of which cannot be in the building where the candidate is currently working or has worked) candidates will demonstrate in a culminate final interview, competencies in the subject areas of schools and society, school law, fiscal management, personnel management, curriculum and instruction, assessment, supervision and building management. During this internship, candidates will write reflection papers, one on each topic and log 150 hours of internship during the semester. This course has the accumulation of the final/capstone presentation of the students Action Research Project.

Prerequisite(s):

ED 535 Minimum Grade: P

All candidates MUST successfully pass the Science of Reading exam administered in ED 545 Principal Internship IV to complete the program and be eligible for licensure

Academic Core Requirements for MA Candidates only

ED 507 - Integrated Instruction & Assessment

3 Credit(s)

This course supports candidates in aligning their beliefs and values to develop their teaching identity. Metacognitive processes will help candidates be aware of their own motives and empower them to actively participate in their own learning as they begin to develop their art of teaching. Candidates will design a sequence or unit of study following the Understanding by Design framework which includes digging deeper into formative and summative assessments and interpreting assessment data to teach responsively. Alternative methods of facilitating instruction and assessing student performance and understanding will be investigated and implemented to increase the candidate's understanding of their students' abilities, interests, and needs. Candidate's will also discover strategies for fostering successful community partnerships.

ED 534 - Multicultural Perspectives

3 Credit(s)

This course provides students with an overview of the role of cultural diversity in the classroom and its effect on teaching and learning. While exploring issues of race, class, culture, and power, students will develop a deeper understanding of school demographics, perspectives on teaching and learning and the interaction between pedagogy and culture. Students will gain an understanding about the effects of different social, cultural, linguistic, and cognitive experiences on learner development, the impact this can have on their choices as teachers and leaders.

ED 557 - Research Methods

3 Credit(s)

Research methods is designed to provide candidates in the program with background knowledge of quantitative and qualitative research methods. The course will help candidates evaluate the appropriateness of each method when designing a research project. Candidates will develop mini- proposals for each type of research in preparation for implementing and reporting on their own research project.

Master of Arts in Education, Post Baccalaureate Initial Teaching License - Elementary Education

Prerequisite to Professional Core

ED 501 - Perspectives in Teaching and Learning

3 Credit(s)

This course is a study of school, societal and cultural issues and their influences on teaching and learning. As an introductory course, the purpose is to learn about teaching as a career choice, the historical development of American education, social and political structures in the schools, and power groups influencing educational policy. Issues of educational reform will include civil rights, students' rights, ethnic, gender and racial issues, individualizing instructions, special education, learning theory models, (inclusive of diversity issues related to electronic media) and

alternative school structures. Emphasis is placed on the orientation and development of a proficient and reflective professional educator.

ED 502 - The Exceptional Learner

3 Credit(s)

This course is designed to survey the foundations of special education, including historical, philosophical perspectives, legal issues and current trends in instruction and programming. Students will explore the role of general education as it relates to the education of the student with exceptional needs. Emphasis will be placed on developing knowledge of various disabling conditions, available resources and educational alternatives. Students will learn about the ethical and sociopolitical influences on prevention, intervention and educational programs for students with special needs, from birth through post-secondary ages. Learning characteristics and the diverse needs of students who receive special education services as well students who culturally and linguistically diverse will also be studied. From a pedagogically sound, as well as developmentally appropriate perspective, the similarities and differences within and between exceptionalities and typical development will be emphasized.

ED 547 - Teaching, Learning, and Technology

3 Credit(s)

This course is an introduction to the theories and applications of appropriate and effective uses of technology to achieve pedagogical goals. Content includes exploring emerging technologies, designing lessons aligned to the Colorado Essential Skills, integrating digital tools to strengthen teaching and improve student learning, identifying guidelines for designing and implementing online learning environments, comparing various theories of teaching and learning related to the design of virtual lessons/online programs, and describing effective instructional strategies for online learning. Using technology in K-12 classrooms is relevant to prepare students for success in post-secondary and workforce settings.

Prerequisite(s):

Teacher Education Background Check Passed

Pass Praxis II

Candidates are advised to take and pass all Praxis II exams prior to beginning the program and are required to take and pass all Praxis II exams prior to beginning the professional core.

Professional Core

ED 506 - Student Teaching-Elementary I

1 to 3 Credit(s)

This field experience is a required component of the post-baccalaureate teacher licensure program and provides candidates with a comprehensive experience in a public school setting. Candidates must complete all components outlined in the Student Teaching Handbook. A team of faculty supervisors and mentors will help the candidate acquire the necessary skills in the practice of building a community of learners while teaching and learning. The community of learners includes the student teacher, the cooperating mentor teacher, the university field supervisor, the building principal, and the classroom students. This student teaching experience requires a minimum of 640 hours of contact time over the course of an academic year.

Prerequisite(s):

Teacher Education Background Check Passed

ED 511 - STEM Methods**3 Credit(s)**

This course provides a background on high leverage practices such as: explaining and modeling content, eliciting and interpreting, and diagnosing patterns of student thinking for STEM. The course will also include close examination of the P-6 Colorado Science and Mathematics Content Standards. This background prepares students to develop and implement STEM learning experiences for students at the elementary grade level. Emphasis is on the integration of STEM into the broader curriculum, especially literacy, and to instruction strategies that support success for all students, including linguistically and culturally diverse learners. Topics cover interpreting student work, checking student understanding, designing units, being precise with language in STEM content, and how to use inquiry.

Prerequisite(s):

Admission to Ed Prep Program and Clear fingerprint background check

ED 512 - Inclusive and Safe Classroom Management**3 Credit(s)**

This course explores the foundational principles of effective classroom instruction, behavior evaluation, and management techniques while promoting a safe and healthy school environment. This course equips candidates with critical thinking skills to design and implement successful classroom management strategies, emphasizing student achievement through effective time management, communication, and record-keeping procedures. Candidates will also develop comprehensive management plans. Candidates will examine school law and professional ethics for educators. They will gain insights into the legal and ethical frameworks that guide their roles as educators, ensuring they are well-prepared to uphold the highest standards of professionalism and integrity. The content of this course addresses health and wellness topics, including conflict resolution, mediation, nutrition, emergency protocols, and first aid within the educational setting. Candidates will design and implement SEL curricula, considering diverse student needs and crisis prevention and intervention strategies. This course is essential for educators to create a safe, healthy, and inclusive learning environment.

NOTE:

- Licensure candidates will be required to wear photo identification as they participate in this field-experience.
- Photo IDs must be obtained PRIOR to the beginning of the field-experience component.
- Field-experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Teacher Education Background Check Passed

Co-requisite(s): A pre-professional, supervised, field-based experience

ED 521 - Science of Reading**3 Credit(s)**

This foundational course in reading explores literacy development and the structure of language by

1. defining the relationship between cognitive and linguistic development
2. assessing literacy development

3. nurturing the development of emergent literacy, and
4. investigating and planning instruction for the five components of reading which include phonemic awareness, phonics, fluency, vocabulary, and comprehension

Prerequisite(s):

Admission to Post Bacc Program and Clear Fingerprint Background Check

ED 522 - Pedagogical Strategies for Cultural Competence

3 Credit(s)

This is a dynamic and transformative course designed to equip future educators with the essential knowledge and skills to foster cultural competence in the classroom. Students will engage in learning that enhances their ability to use data to better understand and respond to diversity in their respective schools and communities. They will critically examine the impact of cultural values and bias on school curriculum and teacher practice, while applying strategies aimed at creating more culturally responsive experiences for diverse children. Students will also deepen their understanding and practice in working with vulnerable students and families, including those facing abuse, trauma, generational poverty and other forms of crisis.

NOTE: A pre-professional, supervised, field-based experience is a course requirement. Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component. Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to Post Bacc Program and Clear fingerprint/background check

ED 560 - Educational Psychology

3 Credit(s)

This course supports teachers in developing practical and effective approaches to various forms of student assessment. Students will make distinctions between formative and summative assessments. Pre-service teachers will learn various approaches to gathering student and teacher feedback to facilitate students learning and guide instruction. The course will explore grading systems that are consistent, reliable, and valid. This course has field lab hours, which are off-campus; students are responsible for their own transportation.

ED 561 - The Reading and Writing Connection

3 Credit(s)

This course delves into the art of effective teaching methods in the realms of reading and writing, highlighting the intricate link between these subjects. Furthermore, it addresses the reality that some students encounter difficulties in these areas. The course equips learners with the skills to employ a diverse range of assessments, encompassing both formal and informal approaches, to gauge a student's strengths and areas needing improvement. It will also elucidate the significance of employing various assessment methods and their impact on enhancing instruction and elevating student achievement. This course will involve lectures, discussions, and videos in a hybrid, online, or face-to-face model along with practice in the classroom. Students will complete associated hours of supervised field-based experiences (20 hours for undergraduate students) to observe and interact directly in educational environments. Field service hours are required for licensure. Documentation of verified hours will be collected as part of the undergraduate course. Students will be responsible for their own transportation to the field sites.

NOTE:

- A 20-hour, pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience.
- Photo IDs must be obtained PRIOR to the beginning of the field-experience component.
- Field-experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to Post bacc Program and Clear fingerprint/background check

Student Teaching

ED 520 - Student Teaching-Elementary II

3 Credit(s)

This field experience is a required component of the post-baccalaureate teacher licensure program and provides candidates with a comprehensive experience in a public school setting. Candidates must complete all components outlined in the Student Teaching Handbook. A team of faculty supervisors and mentors will help the candidate acquire the necessary skills in the practice of building a community of learners while teaching and learning. The community of learners includes the student teacher, the cooperating mentor teacher, the university field supervisor, the building principal, and the classroom students. This student teaching experience requires a minimum of 640 hours of contact time over the course of an academic year.

Prerequisite(s):

Teacher Education Background Check Passed

Academic Core Requirements for MA Candidates only

ED 507 - Integrated Instruction & Assessment

3 Credit(s)

This course supports candidates in aligning their beliefs and values to develop their teaching identity. Metacognitive processes will help candidates be aware of their own motives and empower them to actively participate in their own learning as they begin to develop their art of teaching. Candidates will design a sequence or unit of study following the Understanding by Design framework which includes digging deeper into formative and summative assessments and interpreting assessment data to teach responsively. Alternative methods of facilitating instruction and assessing student performance and understanding will be investigated and implemented to increase the candidate's understanding of their students' abilities, interests, and needs. Candidate's will also discover strategies for fostering successful community partnerships.

ED 534 - Multicultural Perspectives

3 Credit(s)

This course provides students with an overview of the role of cultural diversity in the classroom and its effect on teaching and learning. While exploring issues of race, class, culture, and power, students will develop a deeper understanding of school demographics, perspectives on teaching and learning and the interaction between pedagogy

and culture. Students will gain an understanding about the effects of different social, cultural, linguistic, and cognitive experiences on learner development, the impact this can have on their choices as teachers and leaders.

ED 557 - Research Methods

3 Credit(s)

Research methods is designed to provide candidates in the program with background knowledge of quantitative and qualitative research methods. The course will help candidates evaluate the appropriateness of each method when designing a research project. Candidates will develop mini- proposals for each type of research in preparation for implementing and reporting on their own research project.

Note for Candidates

Candidates may request transfer of up to 6 semester hours upon being admitted to the program. Candidates requesting transfer or substitution of prior coursework must declare so within the first semester of study.

Master of Arts in Education, Post Baccalaureate Initial Teaching Licensure - Secondary Education/K-12

Prerequisite to Professional Core

ED 501 - Perspectives in Teaching and Learning

3 Credit(s)

This course is a study of school, societal and cultural issues and their influences on teaching and learning. As an introductory course, the purpose is to learn about teaching as a career choice, the historical development of American education, social and political structures in the schools, and power groups influencing educational policy. Issues of educational reform will include civil rights, students' rights, ethnic, gender and racial issues, individualizing instructions, special education, learning theory models, (inclusive of diversity issues related to electronic media) and alternative school structures. Emphasis is placed on the orientation and development of a proficient and reflective professional educator.

ED 502 - The Exceptional Learner

3 Credit(s)

This course is designed to survey the foundations of special education, including historical, philosophical perspectives, legal issues and current trends in instruction and programming. Students will explore the role of general education as it relates to the education of the student with exceptional needs. Emphasis will be placed on developing knowledge of various disabling conditions, available resources and educational alternatives. Students will learn about the ethical and sociopolitical influences on prevention, intervention and educational programs for students with special needs, from birth through post-secondary ages. Learning characteristics and the diverse needs of students who receive special education services as well students who culturally and linguistically diverse will also be studied. From a pedagogically sound, as well as developmentally appropriate perspective, the similarities and differences within and between exceptionalities and typical development will be emphasized.

ED 512 - Inclusive and Safe Classroom Management

3 Credit(s)

This course explores the foundational principles of effective classroom instruction, behavior evaluation, and management techniques while promoting a safe and healthy school environment. This course equips candidates with critical thinking skills to design and implement successful classroom management strategies, emphasizing student achievement through effective time management, communication, and record-keeping procedures. Candidates will also develop comprehensive management plans. Candidates will examine school law and professional ethics for educators. They will gain insights into the legal and ethical frameworks that guide their roles as educators, ensuring they are well-prepared to uphold the highest standards of professionalism and integrity. The content of this course addresses health and wellness topics, including conflict resolution, mediation, nutrition, emergency protocols, and first aid within the educational setting. Candidates will design and implement SEL curricula, considering diverse student needs and crisis prevention and intervention strategies. This course is essential for educators to create a safe, healthy, and inclusive learning environment.

NOTE:

- Licensure candidates will be required to wear photo identification as they participate in this field-experience.
- Photo IDs must be obtained PRIOR to the beginning of the field-experience component.
- Field-experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Teacher Education Background Check Passed

Co-requisite(s): A pre-professional, supervised, field-based experience

ED 547 - Teaching, Learning, and Technology

3 Credit(s)

This course is an introduction to the theories and applications of appropriate and effective uses of technology to achieve pedagogical goals. Content includes exploring emerging technologies, designing lessons aligned to the Colorado Essential Skills, integrating digital tools to strengthen teaching and improve student learning, identifying guidelines for designing and implementing online learning environments, comparing various theories of teaching and learning related to the design of virtual lessons/online programs, and describing effective instructional strategies for online learning. Using technology in K-12 classrooms is relevant to prepare students for success in post-secondary and workforce settings.

Prerequisite(s):

Teacher Education Background Check Passed

ED 563 - Content Area Literacy - Secondary

3 Credit(s)

This is a graduate level course that covers approaches and strategies for teaching secondary reading in various subject areas. Topics include textbook selection and readability, comprehension skills, study skills, and meeting needs of diverse student populations.

Content Methods

Methods courses will vary by licensure area and can be taken during either semester of the first year, depending on course offerings and availability

ED 504 - Secondary Teaching and Learning Methods

3 Credit(s)

Students will examine constructivist theory and mindset specific to instructional methods or a selected content area. This class will provide opportunities for observing, standards-based lesson and unit planning, teaching lessons, and assessment for understanding in support of the student's field experience. This will include working with students individually, in small groups, and with the whole classroom.

Prerequisite(s):

Teacher Education Background Check-minimum score 1, Admission to Graduate Study in Teacher Education.

ED 567 - Methods of Teaching Math - Secondary

3 Credit(s)

This course is designed to support the beginning secondary math teacher. Presuming a solid foundation of conceptual knowledge in the content area, the course emphasizes the development of a framework of instructional knowledge and skills to provide successful learning for all students. Students must take at least 24 semester hours of credit in math.

ED 568 - Methods of Teaching Science-Secondary

3 Credit(s)

This course provides a background in constructivist, inquiry-based science instruction for middle school and high school students that corresponds to the P-12 CO Science Education Standards. Pre-service students will gain expertise in planning standards-based science instruction, science teaching strategies and assessment bringing coherence to the activities of science teaching and learning. Utilizing materials, resources and technology that support secondary science education, pre-service teachers will learn to integrate inquiry-based, project and problem-based teaching models and collaborative strategies into long-term and daily secondary instructional plans. Emphasis is on the integration of science into the broader curriculum, especially literacy, and to instruction strategies that support success for all students, including linguistically and culturally diverse learners.

Student Teaching I

ED 577 - Student Teaching Secondary I

1 to 3 Credit(s)

This field experience is a required component of the post-baccalaureate teacher licensure program and provides candidates with a comprehensive experience in a public school setting. Candidates must complete all components outlined in the Student Teaching Handbook. A team of faculty supervisors and mentors will help the candidate acquire the necessary skills in the practice of building a community of learners while teaching and learning. The community of learners includes the student teacher, the cooperating mentor teacher, the university field supervisor, the building principal, and the classroom students. This student teaching experience requires a minimum of 640 hours of contact time over the course of an academic year.

Prerequisite(s):

Admission to the Educator Preparation Program

Pass Praxis II

Candidates are advised to take and pass all Praxis II exams prior to beginning the program and are required to take and pass all Praxis II exams prior to beginning the professional core.

Professional Core

ED 522 - Pedagogical Strategies for Cultural Competence

3 Credit(s)

This is a dynamic and transformative course designed to equip future educators with the essential knowledge and skills to foster cultural competence in the classroom. Students will engage in learning that enhances their ability to use data to better understand and respond to diversity in their respective schools and communities. They will critically examine the impact of cultural values and bias on school curriculum and teacher practice, while applying strategies aimed at creating more culturally responsive experiences for diverse children. Students will also deepen their understanding and practice in working with vulnerable students and families, including those facing abuse, trauma, generational poverty and other forms of crisis.

NOTE: A pre-professional, supervised, field-based experience is a course requirement. Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component. Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to Post Bacc Program and Clear fingerprint/background check

ED 560 - Educational Psychology

3 Credit(s)

This course supports teachers in developing practical and effective approaches to various forms of student assessment. Students will make distinctions between formative and summative assessments. Pre-service teachers will learn various approaches to gathering student and teacher feedback to facilitate students learning and guide instruction. The course will explore grading systems that are consistent, reliable, and valid. This course has field lab hours, which are off-campus; students are responsible for their own transportation.

Student Teaching II

ED 578 - Student Teaching Secondary II

3 Credit(s)

This field experience is a required component of the post-baccalaureate teacher licensure program and provides candidates with a comprehensive experience in a public school setting. Candidates must complete all components outlined in the Student Teaching Handbook. A team of faculty supervisors and mentors will help the candidate acquire the necessary skills in the practice of building a community of learners while teaching and learning. The community of learners includes the student teacher, the cooperating mentor teacher, the university field supervisor, the building principal, and the classroom students. This student teaching experience requires a minimum of 640 hours of contact time over the course of an academic year.

Academic Core Requirements for MA Candidates only

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Note for Candidates

Candidates may request transfer of up to 6 semester hours upon being admitted to the program. Candidates requesting transfer or substitution of prior coursework must declare so within the first semester of study.

Master of Arts in Education, SPED Generalist Initial License

Go to: Educational Preparation

Academic Core Requirements for MA Candidates only

ED 507 - Integrated Instruction & Assessment

3 Credit(s)

This course supports candidates in aligning their beliefs and values to develop their teaching identity. Metacognitive processes will help candidates be aware of their own motives and empower them to actively participate in their own

learning as they begin to develop their art of teaching. Candidates will design a sequence or unit of study following the Understanding by Design framework which includes digging deeper into formative and summative assessments and interpreting assessment data to teach responsively. Alternative methods of facilitating instruction and assessing student performance and understanding will be investigated and implemented to increase the candidate's understanding of their students' abilities, interests, and needs. Candidate's will also discover strategies for fostering successful community partnerships.

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Research methods is designed to provide candidates in the program with background knowledge of quantitative and qualitative research methods. The course will help candidates evaluate the appropriateness of each method when designing a research project. Candidates will develop mini- proposals for each type of research in preparation for implementing and reporting on their own research project.

Required Courses for Licensure

SPED 531 - SPED for Culturally Linguistically Diverse (CLD) Students

3 Credit(s)

This course focuses on issues and trends related to the assessment, instruction and planning requirements for culturally linguistically diverse learners with exceptional needs. Emphasis will feature the overrepresentation and underrepresentation of culturally diverse students in special education and gifted education programs. It will also explore language, literacy and cultural variables that influence instruction and assessment practices for students with disabilities who come from culturally and linguistically diverse backgrounds.

SPED 534 - Domains of Learning

3 Credit(s)

This course will survey learning theories relevant to the following domains: Cognitive (e.g. brain-based learning), Cognition & literacy, affective, social, behavior/psycho-motor, cultural and communicative. Learning styles and problem-solving processes will also be addressed in the course. The application of theoretical frameworks for domains to enhance student learning outcomes and literacy skills (phonics, phonemic awareness, vocabulary, fluency, and comprehension) will be required.

SPED 535 - Identification, Teaching SPED

3 Credit(s)

This course is designed to provide students with knowledge of the areas of exceptionalities needed in the special education planning process. The course will include skills necessary in the multidisciplinary process for identifying students strengths/needs in order to develop and implement Individualized Education and Transition Plans in collaboration with other special education and regular education professionals. Alternative teaching methods and approaches to instructional materials to ensure student (including students who are English language Learners and CLD) success and achievement will be the focus of the course. Candidate will explore intensive intervention programs and structure based on progress monitoring data to improve instruction for students with intensive learning needs who are not responding to the standard protocol at Tier 1 and Tier 2 of MTSS

SPED 540 - Assessment in Special Education

3 Credit(s)

This course is an introduction to assessments and measurements in an educational setting. Students will develop skills for the systematic process of gathering, interpreting, and organizing educationally relevant information based on laws, policies and legal provisions. Emphasis is placed on effective assessment principles and procedures developing both theoretical and practical knowledge for assessment-based, instructional decision making about the provision of special services to exceptional students and students from cultural and linguistically diverse backgrounds. A focus will be on collaboration with stakeholders to interpret and apply assessment results for the determination of eligibility for special education services. Valid assessment methods/types will be utilized in order to limit the misidentification of CLD and CLDE students. The use of technology, including assistive technology, with all students, including those students with special learning and communication needs will also be explored. A range of technologies will be examined, from low-tech devices such as simple switches to computers, adaptive devices, and software appropriate for students with disabilities. Basic standard setting, grading, testing ethics, locating and evaluating measures, program evaluation, development of foundational skills for assessing literacy development for students with disabilities served in general education setting and classroom research will also be presented.

SPED 542 - Special Education Law

3 Credit(s)

The principles of IDEA and implications for educational programming and instruction will be presented. Section 504 requirements and implications for special and regular education will be presented. Special attention to the educational needs of culturally and linguistically diverse special needs students will be addressed.

SPED 558 - Student Teaching in SPED

3 Credit(s)

The course addresses student teacher state required field experience hours to be completed in a secondary school setting with a focus on transition planning. The experience provided during student teaching will involve placement in a total inclusion setting. This practice experience helps candidates acquire necessary skills to build a community of learners in a secondary setting. The student teaching experience requires a minimum of 120 hours in a secondary setting (inclusion in content areas where applicable). Through a combination of classroom experiences and lab hours, the students will be able to address the significant support needs of exceptional learners including English language learners and students with disabilities who come from culturally and linguistically diverse backgrounds. The instructional team shall be composed of the secondary special education students, student teacher, cooperating teacher, college supervisor, and the building administrator.

Note

- All students are required to declare during admission whether they are in licensure-only or Special Education Generalist Master's Program. Once you declare that you are in licensure-only program and begin, you cannot change it in the middle of the program.
- All students must take and pass the PRAXIS in approved elementary education content exam, SPED Generalist exam and Teaching Reading exam.

Mentor Teacher Endorsement

Go to: Educational Preparation

Required Courses

ED 587 - Mentor Teacher Seminar I

3 Credit(s)

The Mentoring and Coaching Seminar I course is the co-requisite for ED 588 Mentoring and Coaching Internship I. This seminar course will support educators in developing their art of mentoring and coaching through intention, planning, practice, and reflection to actively engage in enhancing teaching practices and addressing systemic issues to aid in the transformation of schools.

Co-requisite(s): Admission to Mentor Endorsement Program and **ED 588**

ED 588 - Mentoring and Coaching Internship I

3 Credit(s)

The Mentoring and Coaching Internship I course is the co-requisite for ED 587 Mentor Seminar I. This internship will support educators in developing their art of mentoring and coaching through intention, planning, practice, and reflection to actively engage in enhancing teaching practices and addressing systemic issues to aid in the transformation of schools.

Grade Mode: P/F

Prerequisite(s):

Admission to Mentor Endorsement Program and **ED 587**

ED 594 - Mentor Teacher Seminar II

3 Credit(s)

This internship will support educators in developing their art of mentoring and coaching through intention, planning, practice, and reflection to actively engage in enhancing teaching practices and addressing systemic issues to aid in the transformation of schools.

Prerequisite(s):

Admission to Mentor Endorsement Program and completion of ED 587

Co-requisite(s): ED 595

ED 595 - Mentoring and Coaching Internship II

3 Credit(s)

This internship will support educators in developing their art of mentoring and coaching through intention, planning, practice, and reflection to actively engage in enhancing teaching practices and addressing systemic issues to aid in the transformation of schools.

Grade Mode: P/F

Prerequisite(s):

Admission to Mentor Endorsement Program and completion of ED 588

Co-requisite(s): ED 594

School of Humanities and Social Sciences (SHSS)

Director

- **Dr. Colleen M. Schaffner**

Assistant Director

- **Dr. Beth Bonnstetter**

Programs Offered

- Languages, Literature, and Media Communication
- HAPPS (History, Anthropology, Philosophy & Political Science)
- Psychology
- Sociology

HAPPS (History, Anthropology, Philosophy & Political Science)

Return to: School of Humanities and Social Sciences (SHSS)

Faculty

Department Chair

- Dr. Nick Saenz

Cultural Resource Management (graduate)

- Dr. Caroline Gabe, Coordinator

Professors

- Mari Centeno, Ph.D., Professor of Political Science
- Richard Loosbrock, Ph.D., Professor of History
- Nick Saenz, Ph.D., Professor of History

Assistant Professors

- Caroline Gabe, Ph.D., Assistant Professor of Anthropology
- Natasha Liebig, Ph.D. Assistant Professor of Philosophy (NTT)
- Chris Merriman, Ph.D., Visiting Assistant Professor of Anthropology

Unless specified otherwise, the rank of associate professor implies tenured status. "NTT" indicates "non-tenure track."

Course List

All Courses Offered by HAPPS

Associate of Arts, Social Studies Emphasis

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

As Part of the Graduation Requirements for Undergraduates, Complete:

General Education Requirements (31 Credits Total)

Area I. Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18
OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T
OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II. Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic

concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments,

and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III. Mathematics (3 credits)

MATH 104 - Finite Mathematics GT-MA1

3 Credit(s)

Topics covered include functions and their graphs, matrices, linear programming, probability, and descriptive statistics. Applications are presented from the areas of biology, business, behavioral sciences, economics, and the social sciences.

Prerequisite(s):

MATH 97 Minimum Grade: S-C or T

OR

MATH 99 Minimum Grade: S-C or T

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

ACT Math - Minimum Score: 19

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T

OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Area IV. Social and Behavioral Sciences/History (9 credits)

- at least one course must be a GT-SS*
- At least one course must be a GT-HII course
- the remaining course may come from either category
- Only one ECON course may be used towards the requirements in this General Education area

GT-SS* Courses

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

GT-HI1 Courses

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V. Physical and Natural Sciences (7 Credits)

One credit must be a lab:

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

CHEM 103 - Introduction to Forensic Chemistry GT-SC1

4 Credit(s)

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the

non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

CHEM 103L - Introduction to Forensic Chemistry Lab GT-SC1

0 Credit(s)

Required companion laboratory to CHEM 103.

Co-requisite(s): CHEM 103

CHEM 104 - Chemistry in Context GT-SC2

3 Credit(s)

This course is designed to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and in significant issues facing science, technology, and society.

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2

3 Credit(s)

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-

OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the

system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

Specific Courses Required for This Degree

- History - 9 Credits (in addition to those taken for General Education Area II):

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Government (3 Credits)

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ANTH 205 - Physical Anthropology

3 Credit(s)

The course will examine physical anthropology as a sub discipline of anthropology. The goal is to understand how the physical realities of being human affects the nature of culture. The central theme will be the evolution of humans from the earliest hominid forms to modern Homo sapiens. The course will focus on the mechanisms of evolution, an understanding of primate behavior in general, and the fossil evidence for hominid development.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

Philosophy (6 Credits)

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 202 - Ethics

3 Credit(s)

An examination of criteria governing ethical responses in typical situations as presented by representative thinkers. The

application of principles in the development of reasonable standards of conduct and in the formulation of codes of ethics.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

Elective Courses

Students may, in consultation with the department chair of HAPPSS, select enrichment courses with an HGP/HIST/POLS/PHIL/ANTH prefix, another course at the 100- to 200-level approved by the department chair, or any course from the menu above not taken to fulfill content area requirements.

Total completion of a minimum of 60 credits for this degree

Bachelor of Arts in Anthropology

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

Required Courses

Core

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ANTH 205 - Physical Anthropology

3 Credit(s)

The course will examine physical anthropology as a sub discipline of anthropology. The goal is to understand how the physical realities of being human affects the nature of culture. The central theme will be the evolution of humans from

the earliest hominid forms to modern Homo sapiens. The course will focus on the mechanisms of evolution, an understanding of primate behavior in general, and the fossil evidence for hominid development.

GSCI 201 - Introduction to Cartography and GIS

3 Credit(s)

This course will introduce students to the core concepts of Geographic Information Systems (GIS) and the importance and relevance of GIS in today's world. Students will learn what GIS is, what it is used for, and how to perform basic and core tasks involving GIS analysis. An objective is to help students develop the ability to think critically about cartographic processes and representations as well as develop their skills in creating maps. Students are expected to have basic computer proficiency prior to enrolling in this course.

PSYC 211 - Introduction to Statistics Lecture/Lab

4 Credit(s)

In this course, students will develop a working appreciation of statistical concepts and applications as employed in the behavioral sciences. The course presents descriptive and inferential statistics and their applications. The laboratory component of this course gives students an opportunity to develop skills in using statistical software.

Prerequisite(s):

PSYC 101 Minimum Grade: C- or T

AND

MATH 97 Minimum Grade: S-A or S-B or S-C or T

OR

MATH 99 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 121 Minimum Grade: C- or T

OR

MATH 140 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

SOC 311 - Social Statistics

4 Credit(s)

This course presents a general overview of the statistical methods most commonly used in sociology and the social sciences. As a laboratory component, students will become proficient in SPSS, a computer program designed to aid statistical analysis. These skills will enable the student to read popular applications of statistics in the media with a critical eye; assess the use of statistics in the professional sociological literature; and use statistical tools to answer the sociological questions of interest.

Prerequisite(s):

SOC 255 Minimum Grade: C-

AND

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

ANTH 300 - Archaeology

3 Credit(s)

This course will provide an overview of archaeological method and theory with a particular emphasis on American archeology, and provide a general survey of prehistory with an emphasis on the western United States.

ANTH 310 - Anthropological Linguistics

3 Credit(s)

After a general introduction to the nature of language (descriptive linguistics) this course will focus on human communication and the uses of language (psycholinguistics and sociolinguistics) and on the language cognition relationship (cognitive anthropology and symbolic anthropology).

ANTH 330 - Humans and Water

3 Credit(s)

This class will explore the relationship between humans and water through space and time, focusing on the American West. We will look at how different cultural groups interact with and manipulate water, as well as how they view the natural resource. In addition, we will analyze how changes in water resources influenced human cultures.

ANTH 360 - Forensic Anthropology

3 Credit(s)

This class examines the science and methods of physical anthropology as it relates to the medico-legal work done to identify unknown human remains in atypical circumstances. This introductory course will introduce students to human osteology and dentition in relation to identifying age, sex, stature, and ancestry, as well as bone pathologies and techniques for estimating time of death and post-mortem changes. As part of the course, some visual materials will depict trauma and decomposition of human remains.

ANTH 349 - Anthropology Internship

3 to 6 Credit(s)

This course provides the student with meaningful hands on experience in the field of Anthropology. Students will engage with internship work at a research library, museum, community organization, government agency, or other applicable institution to enhance their knowledge of sources, research methods, institutional cultures, and potential work environments.

PSYC 355 - Research Methods in Psychology

4 Credit(s)

This course focuses on the procedures and potential problems associated with research in the behavioral sciences. Students learn how to develop research questions, choose an appropriate research design, collect and analyze data using statistical software, interpret results, and write a report using APA style. The laboratory component provides supervised hands-on experience in project development.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

LS 225 Minimum Grade: C- OR T

OR

SOC 455 - Qualitative Research Methods

4 Credit(s)

This course is designed to expose students to a variety of qualitative research methods. Students will be instructed in the fundamentals of research design and implementation, including ethical considerations. Students will read and study the research projects of selected sociologists. Students will engage in multiple hands-on activities to practice research methods. Each student will design a qualitative research project. In the lab component of the course, students will analyze and interpret qualitative data. Finally, students will learn to conduct content analysis, and use grounding theory to code and analyze their data and write a final project report. This course includes a lab day each week and is a 4-credit course.

Prerequisite(s):

SOC 201 Minimum Grade: C-
AND

SOC 255 Minimum Grade: C-

ANTH 471 - Senior Seminar in Anthropology

3 Credit(s)

This is a capstone course which will cover the central theories that have driven the field of anthropology over the last 200 years. All students enrolled in the Senior Seminar will also write their Senior Comprehensive Examinations as part of the departmental requirement for all History/Government majors.

Plus, select 8 Courses (at least 4 from ANTH) from the following Electives

ANTH 330 - Humans and Water

3 Credit(s)

This class will explore the relationship between humans and water through space and time, focusing on the American West. We will look at how different cultural groups interact with and manipulate water, as well as how they view the natural resource. In addition, we will analyze how changes in water resources influenced human cultures.

ANTH 339 - Field School in Archaeology

6 Credit(s)

The purpose of this course is to provide students with the basic skills, and the theories from which they are derived, necessary to do archaeological fieldwork. The student will learn basic techniques of site identification and recording, excavation, and artifact processing and analysis. In addition, they will learn instrument surveying and introductory applications of geographic information systems. The skills taught will be appropriate for either prehistoric or historic sites.

ANTH 360 - Forensic Anthropology

3 Credit(s)

This class examines the science and methods of physical anthropology as it relates to the medico-legal work done to identify unknown human remains in atypical circumstances. This introductory course will introduce students to human osteology and dentition in relation to identifying age, sex, stature, and ancestry, as well as bone pathologies and techniques for estimating time of death and post-mortem changes. As part of the course, some visual materials will depict trauma and decomposition of human remains.

ANTH 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

ANTH 450 - Southwest Archaeology

3 Credit(s)

This course explores the greater Southwest from the earliest human inhabitants to Spanish colonization. We will discuss significant changes and trends in subsistence, technology, social systems, and political organization over roughly 15,000 years; from hunter-gatherers following mammoths on the landscape to the Pueblo Revolt of 1680. The course will give students an appreciation of the adaptations of people in the Southwest to an often harsh environment, while also introducing them to the methods and theories archaeologists use to understand the past.

ANTH 460 - Medical Anthropology

3 Credit(s)

This course will explore the cross-cultural significance of health and wellness from an anthropological perspective. We will delve into the complex interplay of biological, psychological, social, environmental, and political-economic processes on the concepts of illness, suffering, and healing. Particular emphasis will be placed on the ethnographic approach to the lived context in which wellness and suffering are experienced, narrated, and addressed.

BIOL 321 - Genetics

3 Credit(s)

A study of Mendelian and molecular genetics of eukaryotes and prokaryotes. Discussions include basic Mendelian principles, meiosis/mitosis, linkage, gene expression, and molecular techniques. Course includes 3 hours of lecture and 1 hour of peer learning activities per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

OR

CHEM-132 Minimum Grade: C- OR T

AND

CHEM-132L Minimum Grade: C- OR T

BIOL 332 - Evolution

3 Credit(s)

A study of the history and development of evolutionary theory. Consideration is given to evidence for and mechanisms of evolution from anatomical, developmental, geological, mathematical, and molecular perspectives. Credit or concurrent registration in BIOL 330 is recommended. This course includes 3 hours of lecture per week.

Prerequisite(s):

BIOL 209 Minimum Grade: C- OR T

AND

BIOL 210 Minimum Grade: C- OR T

GSCI 300 - World Geography

3 Credit(s)

The course examines human or cultural geography with a global perspective. It uses a topic centered approach. It is intended to give the student an appreciation of the interaction between physical geography, environment, and cultural practices.

GSCI 321 - Geomorphology with Environmental Applications

4 Credit(s)

This course is a study of the processes that control the development of the materials and landforms found on the earth's surface. An emphasis is placed upon the hydrologic and variables in generating landforms and human interactions with

these formative processes. Field trips, topographic map, and aerial photo exercises are required. Offered spring semester of even-numbered years.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 330 - Nature and Properties of Soils

4 Credit(s)

This course analyzes soils as natural bodies and managed resources, focusing on impacts of landforms, hydrology, nutrients, and organisms on soils. The laboratory includes analysis of soil patterns, methods of sampling, and techniques of determining physical and chemical properties of soils. Course includes three hours of lecture and two hours of laboratory per week.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

GSCI 343 - Sedimentology and Stratigraphy

4 Credit(s)

This course studies the origin and occurrence of sedimentary materials and their vertical succession. Sediment dynamics and structures will be explored within various depositional settings. Course includes required field trips. GSCI-343 is complementary to Igneous and Metamorphic Petrology (GSCI-334).

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 420 - Remote Sensing

4 Credit(s)

The course considers acquisition and interpretation of remote sensed environmental data, theory and sensors, and manual and computerized interpretation methods.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

AND

GSCI 201 Minimum Grade: C- OR T

HIST 305 - The American West

3 Credit(s)

Historical survey of the Indian-, Hispanic-, and English-speaking groups of the West. Emphasis is on the frontier period.

HIST 328 - Chicano History

3 Credit(s)

A survey of the historical development of the character, economy, social structure, politics, culture, and ideas of the Spanish-speaking people of Mexican descent in the U.S. from settlement until present, with particular attention given to the San Luis Valley.

POLS 393 - Women, Politics, and Culture

3 Credit(s)

Interdisciplinary analysis of politics and culture. Course examines the role of gender in the political culture of the United States and selected societies in industrialized and developing nations. Of special interest to those wishing to pursue an interest in women's studies and/or cultural anthropology.

PSYC 315 - Multicultural Issues

3 Credit(s)

In this course, students will explore various components of a multicultural society and the impact of social and cultural forces on identity development and formation. The processes of acculturation and assimilation will be discussed. Students will also gain insight into their own cultural experiences in a pluralistic society.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

PSYC 455 - Evolutionary Psychology

3 Credit(s)

This course provides students with a detailed and thorough examination of the impact of evolution on human behavior and mental processes. An emphasis using animal behavior and evolutionary processes as a model for understanding human behavior will be utilized. Students will also be exposed to a variety of topics including, the importance of science, the evidence for evolution, selective breeding, genetic and ecological contributions to behavior, the biological constraints on learning, the development of higher mental processes, complex social behavior, and sex differences in mating behavior and cognition.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

SOC 318 - Race, Class, and Gender**3 Credit(s)**

The focus of this course is on the interrelated ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result and the dynamics of change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

Note

- Students must successfully complete Senior Assessment Procedures.
- Students may opt to complete the B.A. in HAPS at an accelerated pace to complete the degree in 3 years. Students desiring this option should contact an HAPS advisor.

Bachelor of Arts in Elementary Education Licensure, Social Studies Emphasis

Go to: Bachelor of Arts, Secondary Education Licensure

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

Required Courses for Emphasis**POLS 291 - American Government GT-SS1****3 Credit(s)**

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

Other Half of U.S. Survey Not Taken for Interdisciplinary Major Core (3 Hours)

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

OR

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Content Electives (9 Hours)

Recommended courses are listed below. Students **MUST** take courses from at least two of the following fields: HIST, POLS, ECON, SOC or ANTH.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

POLS 307 - Introduction to World Governments

3 Credit(s)

This course is specifically designed to prepare education majors for the licensing exam. It is also of interest to history/political science students who want a better understanding of institutions and systems.

HIST 357 - Mexico

3 Credit(s)

Historical survey of the social, intellectual, and political developments from the conquest to the present.

SOC 318 - Race, Class, and Gender

3 Credit(s)

The focus of this course is on the interrelated ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result and the dynamics of change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

POLS 393 - Women, Politics, and Culture

3 Credit(s)

Interdisciplinary analysis of politics and culture. Course examines the role of gender in the political culture of the United States and selected societies in industrialized and developing nations. Of special interest to those wishing to pursue an interest in women's studies and/or cultural anthropology.

Plus Additional Elementary Education Licensure Requirements from the School of Education

Bachelor of Arts in Elementary Education

Bachelor of Arts in HAPS, Anthropology Emphasis

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

Required Courses

Completion of 6 Credits of World History

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

Completion of the following Core Courses

ANTH 471 - Senior Seminar in Anthropology

3 Credit(s)

This is a capstone course which will cover the central theories that have driven the field of anthropology over the last 200 years. All students enrolled in the Senior Seminar will also write their Senior Comprehensive Examinations as part of the departmental requirement for all History/Government majors.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

Required Anthropology Courses

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ANTH 205 - Physical Anthropology

3 Credit(s)

The course will examine physical anthropology as a sub discipline of anthropology. The goal is to understand how the physical realities of being human affects the nature of culture. The central theme will be the evolution of humans from the earliest hominid forms to modern Homo sapiens. The course will focus on the mechanisms of evolution, an understanding of primate behavior in general, and the fossil evidence for hominid development.

ANTH 300 - Archaeology

3 Credit(s)

This course will provide an overview of archaeological method and theory with a particular emphasis on American archeology, and provide a general survey of prehistory with an emphasis on the western United States.

ANTH 310 - Anthropological Linguistics

3 Credit(s)

After a general introduction to the nature of language (descriptive linguistics) this course will focus on human communication and the uses of language (psycholinguistics and sociolinguistics) and on the language cognition relationship (cognitive anthropology and symbolic anthropology).

Plus, Select 4 Courses from the following Electives

ANTH 179 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

ANTH 192 - Workshops

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

ANTH 199 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interests in the field. By faculty permission and approval of the department chair.

ANTH 279 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

ANTH 292 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

ANTH 299 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

ANTH 330 - Humans and Water

3 Credit(s)

This class will explore the relationship between humans and water through space and time, focusing on the American West. We will look at how different cultural groups interact with and manipulate water, as well as how they view the natural resource. In addition, we will analyze how changes in water resources influenced human cultures.

ANTH 339 - Field School in Archaeology

6 Credit(s)

The purpose of this course is to provide students with the basic skills, and the theories from which they are derived, necessary to do archaeological fieldwork. The student will learn basic techniques of site identification and recording, excavation, and artifact processing and analysis. In addition, they will learn instrument surveying and introductory applications of geographic information systems. The skills taught will be appropriate for either prehistoric or historic sites.

ANTH 349 - Anthropology Internship

3 to 6 Credit(s)

This course provides the student with meaningful hands on experience in the field of Anthropology. Students will engage with internship work at a research library, museum, community organization, government agency, or other applicable institution to enhance their knowledge of sources, research methods, institutional cultures, and potential work environments.

ANTH 360 - Forensic Anthropology

3 Credit(s)

This class examines the science and methods of physical anthropology as it relates to the medico-legal work done to identify unknown human remains in atypical circumstances. This introductory course will introduce students to human osteology and dentition in relation to identifying age, sex, stature, and ancestry, as well as bone pathologies and techniques for estimating time of death and post-mortem changes. As part of the course, some visual materials will depict trauma and decomposition of human remains.

ANTH 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

ANTH 392 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

ANTH 399 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

ANTH 450 - Southwest Archaeology

3 Credit(s)

This course explores the greater Southwest from the earliest human inhabitants to Spanish colonization. We will discuss significant changes and trends in subsistence, technology, social systems, and political organization over roughly 15,000 years; from hunter-gatherers following mammoths on the landscape to the Pueblo Revolt of 1680. The course will give students an appreciation of the adaptations of people in the Southwest to an often harsh environment, while also introducing them to the methods and theories archaeologists use to understand the past.

ANTH 460 - Medical Anthropology

3 Credit(s)

This course will explore the cross-cultural significance of health and wellness from an anthropological perspective. We will delve into the complex interplay of biological, psychological, social, environmental, and political-economic processes on the concepts of illness, suffering, and healing. Particular emphasis will be placed on the ethnographic approach to the lived context in which wellness and suffering are experienced, narrated, and addressed.

ANTH 471 - Senior Seminar in Anthropology

3 Credit(s)

This is a capstone course which will cover the central theories that have driven the field of anthropology over the last 200 years. All students enrolled in the Senior Seminar will also write their Senior Comprehensive Examinations as part of the departmental requirement for all History/Government majors.

ANTH 479 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

ANTH 492 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

ANTH 499 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

ANTH 539 - Archaeology Field School

1 to 6 Credit(s)

Through actual field experience, the student will learn basic techniques of site identification and recording, excavation, and artifact processing and analysis. In addition, they will learn instruments surveying and introductory applications of geographic information systems. The skills taught will be appropriate for either prehistoric or historic sites.

ANTH 579 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

ANTH 592 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

ANTH 599 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Chair.

BIOL 321 - Genetics

3 Credit(s)

A study of Mendelian and molecular genetics of eukaryotes and prokaryotes. Discussions include basic Mendelian principles, meiosis/mitosis, linkage, gene expression, and molecular techniques. Course includes 3 hours of lecture and 1 hour of peer learning activities per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

OR

CHEM-132 Minimum Grade: C- OR T

AND

CHEM-132L Minimum Grade: C- OR T

BIOL 332 - Evolution

3 Credit(s)

A study of the history and development of evolutionary theory. Consideration is given to evidence for and mechanisms of evolution from anatomical, developmental, geological, mathematical, and molecular perspectives. Credit or concurrent registration in BIOL 330 is recommended. This course includes 3 hours of lecture per week.

Prerequisite(s):

BIOL 209 Minimum Grade: C- OR T

AND

BIOL 210 Minimum Grade: C- OR T

ENG 226 - Introduction to Linguistics

3 Credit(s)

This course is an in-depth introduction to linguistics. It will include discussion of the syntax, phonology, morphology, semantics, and pragmatics of English. Additionally it may include a basic introduction to issues such as historical linguistics, first and second language acquisition, psycholinguistics, sociolinguistics, and other issues relevant to the field.

Prerequisite(s):

ENG-101 Minimum Grade: C- OR T

ENG 359 - Mythology

3 Credit(s)

An in-depth study of world mythology to familiarize students with major cultural and literary traditions.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

ENG 425 - English Syntax

3 Credit(s)

A descriptive study of English syntax in the framework of generative-transformational grammar, with emphasis on theoretical approaches developed in the 1980's and later.

Prerequisite(s):

ENG 357 Minimum Grade: C- OR T

GSCI 201 - Introduction to Cartography and GIS

3 Credit(s)

This course will introduce students to the core concepts of Geographic Information Systems (GIS) and the importance and relevance of GIS in today's world. Students will learn what GIS is, what it is used for, and how to perform basic and core tasks involving GIS analysis. An objective is to help students develop the ability to think critically about cartographic processes and representations as well as develop their skills in creating maps. Students are expected to have basic computer proficiency prior to enrolling in this course.

GSCI 300 - World Geography

3 Credit(s)

The course examines human or cultural geography with a global perspective. It uses a topic centered approach. It is intended to give the student an appreciation of the interaction between physical geography, environment, and cultural practices.

GSCI 330 - Nature and Properties of Soils

4 Credit(s)

This course analyzes soils as natural bodies and managed resources, focusing on impacts of landforms, hydrology, nutrients, and organisms on soils. The laboratory includes analysis of soil patterns, methods of sampling, and techniques of determining physical and chemical properties of soils. Course includes three hours of lecture and two hours of laboratory per week.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

HIST 305 - The American West

3 Credit(s)

Historical survey of the Indian-, Hispanic-, and English-speaking groups of the West. Emphasis is on the frontier period.

HIST 320 - History of American Women

3 Credit(s)

This course examines the role of women in American History with special emphasis on how the story of women is told by historians over time. It examines not only the lives of many famous white women, but also the experience of women from various ethnicities and economic backgrounds. In addressing how Americans construct their understanding of women's lives in the U.S., the course will also reassess how focusing on women's lives might alter one's understanding of the broader patterns and interpretations of American History.

HIST 328 - Chicano History

3 Credit(s)

A survey of the historical development of the character, economy, social structure, politics, culture, and ideas of the Spanish-speaking people of Mexican descent in the U.S. from settlement until present, with particular attention given to the San Luis Valley.

HIST 355 - Latin America to 1830

3 Credit(s)

A survey of the economic, political, and social dimensions of the colonial system. Themes include the pre-Columbian civilizations of the Americas, the imposition of European rule, the place of Latin America in the emerging Atlantic economy, and the independence movements of the early 19th century. Major emphasis will be given to the "core" areas of Mexico, Peru, and Northeastern Brazil, but other regions will also be considered.

HIST 356 - Latin America Since 1830

3 Credit(s)

This course will examine the evolution of Latin America from the aftermath of independence to the present. Major themes include: the incorporation of Latin America into the global economy, the effect of the export economy on the region's peasant populations, the building of national states, the fate of revolutionary struggles in the 20th century, and Latin America's "neocolonial" relationship with the United States.

HIST 357 - Mexico

3 Credit(s)

Historical survey of the social, intellectual, and political developments from the conquest to the present.

POLS 393 - Women, Politics, and Culture

3 Credit(s)

Interdisciplinary analysis of politics and culture. Course examines the role of gender in the political culture of the United States and selected societies in industrialized and developing nations. Of special interest to those wishing to pursue an interest in women's studies and/or cultural anthropology.

PSYC 315 - Multicultural Issues

3 Credit(s)

In this course, students will explore various components of a multicultural society and the impact of social and cultural forces on identity development and formation. The processes of acculturation and assimilation will be discussed. Students will also gain insight into their own cultural experiences in a pluralistic society.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

PSYC 360 - Psychology of Gender

3 Credit(s)

This course will examine gender development from a variety of theoretical approaches, including evolutionary, cognitive, social learning, and cross-cultural. Topics will include how gender influences thinking, communication, interpersonal relationships, education, work, and family.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

SOC 318 - Race, Class, and Gender

3 Credit(s)

The focus of this course is on the interrelated ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result and the dynamics of change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 320 - Marriages and Families

3 Credit(s)

This course will provide an overview of the family from a sociological perspective. The family is considered to be one of the most private and pervasive institutions in society. All of us have had contact with at least one family, and many of us will be involved in several different families during our lifetime. Our experiences point to the numerous transformations in family life. To obtain a better understanding of these changes, recent sociological research and data on the family will be utilized in this course. In addition to examining the history of the family, the course will study the contemporary family and its diversity. The course will examine traditional marriage/family arrangements and alternative processes of mate selection and family formation. Finally, the course will examine parenting, the relationship between work and family, divorce and reconstituted families.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 419 - Gender and Society

3 Credit(s)

The aim of the course is for students to become familiar with the continuing differences and inequalities between women and men in the contemporary United States, and to begin to explain why and how they occur through a sociological lens. Understanding gender as it relates to other social identities (for example, race, class and sexuality) is an important organizing framework of the course. Students will learn about the gendered arrangements in a variety of social contexts such as education, the media, work and the economy, and the family.

Note

- Students must successfully complete Senior Assessment Procedures.
- Students may opt to complete the B.A. in HAPS at an accelerated pace to complete the degree in 3 years. Students desiring this option should contact an HAPS advisor.

Bachelor of Arts in HAPS, History Emphasis

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

Specific courses required for this degree:

Completion of Six Credits of World History

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

Completion of the Following Core Courses

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

HGP 471 - Senior Seminar

3 Credit(s)

This course is designed to be the academic capstone experience for all students who have majored in History/Government. All seminar members will participate in the discussion of the assigned reading material. Each student will write a paper that reflects the student's mastery of library usage, research methodology, breadth of knowledge, and writing ability. The students will give oral presentations of their papers to the members of the Seminar. All students enrolled in the Senior Seminar will also write their Senior Comprehensive Examinations as part of the

requirement for all History/Government majors. The Seminar topic will be chosen by the instructor but sufficient methodological approaches will be explored to accommodate the interests of students from either a History or Government emphasis.

Successful Completion of Senior Assessment Procedures

Completion of at Least Four Courses (12 Credit Hours)

from each of the following two fields.

Europe and Latin America-

HIST 328 - Chicano History

3 Credit(s)

A survey of the historical development of the character, economy, social structure, politics, culture, and ideas of the Spanish-speaking people of Mexican descent in the U.S. from settlement until present, with particular attention given to the San Luis Valley.

HIST 330 - The Middle Ages

3 Credit(s)

A survey of the development of European civilization from the decline of the Roman Empire to the Italian Renaissance.

HIST 331 - Renaissance and Reformation

3 Credit(s)

A survey of European civilization from the end of the Middle Ages through the Renaissance and Reformations, coverage of Catholic Counter-reformation as well as the Protestant Reformation, with special emphasis on culture, religion, art, politics, science, and social history.

HIST 334 - French Revolution and Napoleon

3 Credit(s)

An examination of the many complex causes, effects, and lessons of the French Revolution, including daily life, the Estates, politics, economics and the absolute monarchy in Old Regime France, the onset of the Revolution, Napoleon and his empire.

HIST 346 - Imperial Spain

3 Credit(s)

This course examines Spanish history from 1700 to the end of the twentieth century, devoting special attention to the role of Spain in Europe and the construction of colonies in Africa and Asia in addition to the Americas.

HIST 355 - Latin America to 1830

3 Credit(s)

A survey of the economic, political, and social dimensions of the colonial system. Themes include the pre-Columbian civilizations of the Americas, the imposition of European rule, the place of Latin America in the emerging Atlantic economy, and the independence movements of the early 19th century. Major emphasis will be given to the "core" areas of Mexico, Peru, and Northeastern Brazil, but other regions will also be considered.

HIST 356 - Latin America Since 1830

3 Credit(s)

This course will examine the evolution of Latin America from the aftermath of independence to the present. Major themes include: the incorporation of Latin America into the global economy, the effect of the export economy on the region's peasant populations, the building of national states, the fate of revolutionary struggles in the 20th century, and Latin America's "neocolonial" relationship with the United States.

HIST 357 - Mexico

3 Credit(s)

Historical survey of the social, intellectual, and political developments from the conquest to the present.

HIST 432 - Age of Revolutions

3 Credit(s)

This course will serve as a study of the greater Atlantic world between 1750 and 1850 with a major focus on the late Enlightenment and the birth of liberalism, nationalism, and romanticism in trans-Atlantic and revolutionary contexts. It will devote special attention to major political and social revolutions. Additionally, the course will consider the importance of the late Scientific Revolution, the abolition of African slavery, and the early Industrial Revolution.

HIST 433 - Industry and Empire

3 Credit(s)

This course will serve as a study of the late nineteenth century to the start of World War I. It will devote special attention to the rise of industrial Europe and the expansion of European imperialism in Africa and Asia. Additionally, the course will consider the importance of the Darwinian Revolution and modernism in several scholarly fields.

HIST 434 - Twentieth Century Europe

3 Credit(s)

This course examines how the relationship of Europe and the world has been transformed, whether a new United States of Europe is emerging, or whether Europe is collapsing into ethnic nationalism. Current materials available through the Internet will be used in this course.

HIST 435 - History of Nazism and Fascism

3 Credit(s)

This course will survey the history of Italian Fascism and Nazism in Germany from the end of the First World War to 1945.

POLS 468 - U.S.-Latin American Relations

3 Credit(s)

This course will examine U.S.-Latin American Relations from the Monroe doctrine to the Present. It will explore recent developments in U.S.-Latin American relations, particularly the growing interdependence and the impact of the end of the cold war.

United States-

HIST 301 - Colorado History

3 Credit(s)

The development of Colorado from prehistoric times to the present.

HIST 305 - The American West

3 Credit(s)

Historical survey of the Indian-, Hispanic-, and English-speaking groups of the West. Emphasis is on the frontier period.

HIST 316 - American Revolution & Federalist Era

3 Credit(s)

A comprehensive study of the period from 1763 to 1801, with particular attention given to the American Revolution, the Confederation, the Constitutional Convention, and the administrations of Presidents Washington and Adams.

HIST 320 - History of American Women

3 Credit(s)

This course examines the role of women in American History with special emphasis on how the story of women is told by historians over time. It examines not only the lives of many famous white women, but also the experience of women from various ethnicities and economic backgrounds. In addressing how Americans construct their understanding of women's lives in the U.S., the course will also reassess how focusing on women's lives might alter one's understanding of the broader patterns and interpretations of American History.

HIST 350 - History of Sport in America

3 Credit(s)

This course covers the development of sports and their significance in American life from colonial period to present. It

is designed both to supplement student's understanding of American History and to examine the role that sports have played in shaping contemporary society. Close attention will be paid to the context of sports development, especially the economic and social environment. Topics will include a study of the role of industrial society in fostering sports, and the changing gender structure of sports.

HIST 363 - Civil War and Reconstruction

3 Credit(s)

A study of the ante-bellum South, sectional discord, armed conflict, and reconstruction of the union.

HIST 426 - US in the Era of World Wars

3 Credit(s)

A study of the diplomatic, social, and political developments of the first half of the twentieth century, with emphasis on the impact of immigration, urbanization, technology, and America's increasing involvement in world affairs through World War II.

HIST 427 - The Sixties Era

3 Credit(s)

This course is a study of U.S. history from World War II through the 1980s, with emphasis on the Cold War, the Vietnam War, and social change in the 1960s era.

POLS 429 - Constitutional Law / Criminal Justice

3 Credit(s)

This course examines Supreme Court decisions and doctrine in areas such as search and seizure, the exclusionary rule, interrogations, right to counsel, cruel and unusual punishment and other issues in criminal justice and the courts.

POLS 430 - Constitutional Law: Civil Liberties

3 Credit(s)

This course examines Supreme Court decisions and doctrine in areas such as speech, assembly, religion, privacy, press, civil rights, and election law.

Note:

Students may opt to complete the B.A. in HAPS at an accelerated pace to complete the degree in 3 years.

Students desiring this option should contact an HAPS advisor

Bachelor of Arts in HAPS, Political Science Emphasis

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

Courses Required for this Degree

Completion of Six Credits of World History

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

Completion of the Following Core Courses

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HGP 471 - Senior Seminar

3 Credit(s)

This course is designed to be the academic capstone experience for all students who have majored in History/Government. All seminar members will participate in the discussion of the assigned reading material. Each student will write a paper that reflects the student's mastery of library usage, research methodology, breadth of

knowledge, and writing ability. The students will give oral presentations of their papers to the members of the Seminar. All students enrolled in the Senior Seminar will also write their Senior Comprehensive Examinations as part of the requirement for all History/Government majors. The Seminar topic will be chosen by the instructor but sufficient methodological approaches will be explored to accommodate the interests of students from either a History or Government emphasis.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

Completion of 24 Credits with at least 3 credits from each of the following 4 Subfields

Subfield 1 - Political Theory

POLS 436 - American Thought

3 Credit(s)

The interaction of religious ideas, practices, and aspirations in United States History, 1607 to Present. (Same as PHIL 436)

POLS 466 - Ancient Political Theory

3 Credit(s)

This course is of interest to history/government students who want a better understanding of ancient philosophy and its relationship to political thought.

POLS 467 - Modern Political Theory

3 Credit(s)

This course is of interest to history/government students who want a better understanding of modern philosophy and its relationship to political thought.

POLS 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

OR

POLS 479 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

Subfield 2 - American Politics

POLS 303 - Current Political Issues

3 Credit(s)

This course examines current controversial political issues such as affirmative action, same sex marriage, abortion, capital punishment, cloning, pornography, censorship, religion in public schools, and immigration.

POLS 306 - Campaigns and Elections

3 Credit(s)

This course is a study of elections and campaigns in the US. It focuses on the design and implementation of political campaigns, the behavior of different voter groups, and potential reforms of the electoral system.

POLS 351 - Congress / Presidency / Public Policy

3 Credit(s)

This course examines Congress, the legislative process, presidency, and how both influence the policy-making process, with emphasis on specific policies such as healthcare, education, crime, housing, and social welfare.

POLS 429 - Constitutional Law / Criminal Justice

3 Credit(s)

This course examines Supreme Court decisions and doctrine in areas such as search and seizure, the exclusionary rule, interrogations, right to counsel, cruel and unusual punishment and other issues in criminal justice and the courts.

POLS 430 - Constitutional Law: Civil Liberties

3 Credit(s)

This course examines Supreme Court decisions and doctrine in areas such as speech, assembly, religion, privacy, press, civil rights, and election law.

POLS 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

OR

POLS 479 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

Subfield 3 - Comparative Politics

POLS 307 - Introduction to World Governments

3 Credit(s)

This course is specifically designed to prepare education majors for the licensing exam. It is also of interest to history/political science students who want a better understanding of institutions and systems.

POLS 309 - Politics of the Middle East

3 Credit(s)

This course explores the histories, societies and politics of various countries of the Middle East and North Africa (MENA). Specific issues we will address throughout the semester include: Islam and politics; History, political culture and institutional politics; Intra-regional conflict; Democracy and human rights; Womens issues.

POLS 325 - Political Mvmnts/Latin America

3 Credit(s)

This course broadens students' understanding of Latin America by introducing them to their political aspirations and modes of organization.

POLS 393 - Women, Politics, and Culture

3 Credit(s)

Interdisciplinary analysis of politics and culture. Course examines the role of gender in the political culture of the United States and selected societies in industrialized and developing nations. Of special interest to those wishing to pursue an interest in women's studies and/or cultural anthropology.

POLS 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

OR

POLS 479 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

Subfield 4 - World Politics

POLS 300 - Introduction to World Politics

3 Credit(s)

This course is of interest to students who want a better understanding of the international political arena. The course also helps students understand contemporary world affairs.

POLS 301 - Change Dynamics / International Relations

3 Credit(s)

This course is intended to supplement POLS 300, but can stand on its own. It introduces students to specific topics in the international arena.

POLS 380 - Model United Nations

3 Credit(s)

This course explores international diplomacy and the inner workings of the United Nations. It also provides a hands-on approach to current global debates on issues such as violent conflict, human rights and poverty.

POLS 468 - U.S.-Latin American Relations

3 Credit(s)

This course will examine U.S.-Latin American Relations from the Monroe doctrine to the Present. It will explore recent developments in U.S.-Latin American relations, particularly the growing interdependence and the impact of the end of the cold war.

POLS 480 - International Law

3 Credit(s)

This course explores the key terms and concepts of International Law, from its historical roots to present day institutions, legal cases, and controversies. Many of the key terms and concepts of International Law are the same or similar to those of the U.S. legal system, thereby helping to prepare students who wish to pursue a domestic law degree.

Prerequisite(s):

POLS 380

Co-requisite(s): POLS 380

POLS 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

OR

POLS 479 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

Note

Successful completion of Senior Assessment Procedures is required.

Students may opt to complete the B.A. in HAPS at an accelerated pace to complete the degree in 3 years. Students desiring this option should contact an HAPS advisor.

**Bachelor of Arts in HAPS, Social Studies Emphasis with
Secondary Teacher Licensure**

Go to: Bachelor of Arts, Secondary Education Licensure

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

Complete All Core Courses (18 credits)

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

GSCI 300 - World Geography

3 Credit(s)

The course examines human or cultural geography with a global perspective. It uses a topic centered approach. It is intended to give the student an appreciation of the interaction between physical geography, environment, and cultural practices.

HGP 471 - Senior Seminar

3 Credit(s)

This course is designed to be the academic capstone experience for all students who have majored in History/Government. All seminar members will participate in the discussion of the assigned reading material. Each

student will write a paper that reflects the student's mastery of library usage, research methodology, breadth of knowledge, and writing ability. The students will give oral presentations of their papers to the members of the Seminar. All students enrolled in the Senior Seminar will also write their Senior Comprehensive Examinations as part of the requirement for all History/Government majors. The Seminar topic will be chosen by the instructor but sufficient methodological approaches will be explored to accommodate the interests of students from either a History or Government emphasis.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

Complete 6 Credits of World Civilization Requirements

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

Complete 1 Social Science Course (3 Credits)

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

SOC 318 - Race, Class, and Gender

3 Credit(s)

The focus of this course is on the interrelated ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result and the dynamics of change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

Complete one Comparative Government Course (3 Credits)

POLS 307 - Introduction to World Governments

3 Credit(s)

This course is specifically designed to prepare education majors for the licensing exam. It is also of interest to history/political science students who want a better understanding of institutions and systems.

POLS 309 - Politics of the Middle East

3 Credit(s)

This course explores the histories, societies and politics of various countries of the Middle East and North Africa (MENA). Specific issues we will address throughout the semester include: Islam and politics; History, political culture and institutional politics; Intra-regional conflict; Democracy and human rights; Womens issues.

POLS 325 - Political Mvmnts/Latin America

3 Credit(s)

This course broadens students' understanding of Latin America by introducing them to their political aspirations and modes of organization.

Complete Social Studies Depth and Content Courses

15 hours of ANTH, ECON, HIST, POLS, PSYC. At least two 300-400 level HIST and POLS courses.

Note

- All students seeking social studies licensure are encouraged to seek competency in a foreign language.
- Successful Degree completion requires completion of Senior Assessment Procedures.
- Students may opt to complete the B.A. in HAPS at an accelerated pace to complete the degree in 3 years. Students desiring this option should contact an HAPS advisor.

Plus Additional Secondary Education Licensure Requirements from the School of Education

Bachelor of Arts, Secondary Education Licensure

Bachelor of Arts in Social Sciences, Pre-Law Emphasis

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

This program is designed to focus on the skills, values knowledge and experience recognized as important for law school candidates by the American Bar Association. Skills identified as important for a successful career in law include problem solving, critical reading, writing and editing, oral communication, listening, research, public service and promotion of knowledge and direct exposure to the field of law. Thus, the program draws on courses that traditionally underpin law degrees, including history, philosophy and political science. In addition, we draw on a sample of courses from sociology and psychology that provide a fundamental background in the human experience and will enhance our students' abilities to bring a degree of social justice savvy to their pursuits of law.

Required General Education Courses

CHEM 103 - Introduction to Forensic Chemistry GT-SC1

4 Credit(s)

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T
OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

OR

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

Lower Level Courses

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

PHIL 202 - Ethics

3 Credit(s)

An examination of criteria governing ethical responses in typical situations as presented by representative thinkers. The application of principles in the development of reasonable standards of conduct and in the formulation of codes of ethics.

POLS 280 - Introduction to Model UN

1 to 6 Credit(s)

This course provides a hands-on introduction to international diplomacy and the inner workings of the United Nations. Students will engage in simulations of current global debates on issues such as violent conflict, human rights and poverty.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

PSYC 230 - Psychology of Mental Health

3 Credit(s)

The purpose of this course is to provide students with the historical and social background necessary to understand mental health issues. Students will examine the psychodynamic, behavioral, and cognitive approaches related to the development and treatment of mental disorders and their classifications. Topics will include schizophrenia, depression, bipolar, and personality disorders.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

SOC 245 - Criminology

3 Credit(s)

Criminology is an introductory course to the study of crime and criminal behavior with special emphasis on theories of crime and delinquency causation, rates and extent of crime, and social control agents (i.e., the police, courts, and "corrections"). Special topics examined may include gangs, white-collar crimes, property crimes, victimless crimes, and organized crime.

Upper Level Courses

COMM 457 - First Amendment and Copyright

3 Credit(s)

This course explores the First Amendment of the U.S. Constitution and current U.S. copyright laws, and how they apply to and affect both media practitioners and U.S. citizens.

Prerequisite(s):

COMM 255 Minimum Grade: C- OR T
AND

COMM 275 Minimum Grade: C- OR T

HIST 324 - History of American Business

3 Credit(s)

This course will examine the rise and evolution of U.S. business and capitalism from the founding of the country to the present. It will trace the development of business from early industries such as railroads, banking, and manufacturing through the rise of today's key industries such as automobiles, airlines, and technology corporations. It will also seek to understand the development of the macro-economy through the development of fiscal and monetary policy, and issues of labor.

HIST 420 - US Constitutional History

3 Credit(s)

The U.S. legal system, based on the U.S. Constitution, has evolved and shifted as the nation grew from an agrarian

republic to the diverse and highly technical nation it is today. This course examines the history of the country through the Supreme Court and the evolving understanding of the Constitution, including the shaping of the Constitution through the amendments. This course considers the social and political context for the courts decisions and the impact those decisions have on government and the public.

HIST 496 - Internship in Law

3 Credit(s)

The internship course provides students with an opportunity to demonstrate synthesis and application of the cumulative skills acquired in the pre-law program to a real-world work setting. The internship is an experience that integrates the students classroom learning into a work environment. The student will work closely with an internship supervisor, together they identify a work plan that demonstrates accomplishment of program outcomes and specific Adams outcomes.

PHIL 320 - Water Ethics

3 Credit(s)

This class will explore the ethical concerns of water (re)production, usage, and distribution according to concepts of rights and responsibilities, socio-historical conditions, available resources, cultural usage, evaluation, and governance.

POLS 300 - Introduction to World Politics

3 Credit(s)

This course is of interest to students who want a better understanding of the international political arena. The course also helps students understand contemporary world affairs.

POLS 301 - Change Dynamics / International Relations

3 Credit(s)

This course is intended to supplement POLS 300, but can stand on its own. It introduces students to specific topics in the international arena.

OR

POLS 307 - Introduction to World Governments

3 Credit(s)

This course is specifically designed to prepare education majors for the licensing exam. It is also of interest to history/political science students who want a better understanding of institutions and systems.

POLS 351 - Congress / Presidency / Public Policy

3 Credit(s)

This course examines Congress, the legislative process, presidency, and how both influence the policy-making process, with emphasis on specific policies such as healthcare, education, crime, housing, and social welfare.

POLS 380 - Model United Nations

3 Credit(s)

This course explores international diplomacy and the inner workings of the United Nations. It also provides a hands-on approach to current global debates on issues such as violent conflict, human rights and poverty.

POLS 393 - Women, Politics, and Culture

3 Credit(s)

Interdisciplinary analysis of politics and culture. Course examines the role of gender in the political culture of the United States and selected societies in industrialized and developing nations. Of special interest to those wishing to pursue an interest in women's studies and/or cultural anthropology.

POLS 460 - Pre-Law Studies Seminar

3 Credit(s)

Taught in an intensive Socratic format, this course is designed to prepare students specifically to read, write, and think like a lawyer. In addition to formal classroom exercises, students shall visit courts and interact with practicing attorneys.

POLS 480 - International Law

3 Credit(s)

This course explores the key terms and concepts of International Law, from its historical roots to present day institutions, legal cases, and controversies. Many of the key terms and concepts of International Law are the same or similar to those of the U.S. legal system, thereby helping to prepare students who wish to pursue a domestic law degree.

Prerequisite(s):

POLS 380

Co-requisite(s): POLS 380

SOC 346 - Criminal Justice

3 Credit(s)

The focus of this course is on the organizational structures and social processes of the American criminal justice system. It will examine criminal law, policing, courts, and corrections.

Choose 2 Courses from Recommended Electives

ANTH 360 - Forensic Anthropology

3 Credit(s)

This class examines the science and methods of physical anthropology as it relates to the medico-legal work done to identify unknown human remains in atypical circumstances. This introductory course will introduce students to human osteology and dentition in relation to identifying age, sex, stature, and ancestry, as well as bone pathologies and techniques for estimating time of death and post-mortem changes. As part of the course, some visual materials will depict trauma and decomposition of human remains.

HIST 427 - The Sixties Era

3 Credit(s)

This course is a study of U.S. history from World War II through the 1980s, with emphasis on the Cold War, the Vietnam War, and social change in the 1960s era.

HIST 440 - The US Presidency

3 Credit(s)

This course will examine the evolution of the U.S. Presidency from 1789 to the present day, with special attention devoted to the changing scope and function of the office in the changing context of broader American history. Other topics of particular interest are the key figures who have altered the institution and role of crisis in changing the scope and functioning of the office.

POLS 303 - Current Political Issues

3 Credit(s)

This course examines current controversial political issues such as affirmative action, same sex marriage, abortion, capital punishment, cloning, pornography, censorship, religion in public schools, and immigration.

PSYC 316 - Drugs, Society, and Human Behavior

3 Credit(s)

This course addresses the social, biological, and psychological factors of the major drugs associated with therapeutic and recreational use and abuse. Topics include drug use as a social problem, theories and treatment of addiction, how drugs work, and the detrimental health effects of drug use.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

PSYC 384 - Forensic Psychology

3 Credit(s)

This course focuses upon the application and practice of psychology in both the civil and criminal justice systems with the following topics examined in depth: police and investigative psychology, family forensic psychology, psychology of crime and delinquency, victimology and victim services, legal psychology, expert witness testimony, consulting psychology, correctional psychology, and the ethical guidelines of the professional forensic psychologist.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

OR

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

OR

SOC 455 Minimum Grade: C- OR T

SOC 346 - Criminal Justice

3 Credit(s)

The focus of this course is on the organizational structures and social processes of the American criminal justice system. It will examine criminal law, policing, courts, and corrections.

SOC 347 - Juvenile Delinquency

3 Credit(s)

This course describes the nature of delinquency, including the trends, characteristics, and causes of juvenile delinquency. In addition, the course will examine theories of delinquency, social influences on delinquency, historical and contemporary overviews of the juvenile justice system, and the juvenile justice process from police involvement to the court system and corrections. Finally, methods of treatment and prevention will be identified.

SOC 430 - Social Movements

3 Credit(s)

This course is designed to provide an analysis of social movements on a broad array of topics including issues of how they form, why they form, when are they successful, and whether they change society. We will be looking at broader historical movements from the civil rights movement, the environmental movement and the feminist movement as well as more recent movements, on race, class and gender issues. We will look at how they relate to diversity and equity, social justice, globalization, and cultural change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 444 - Deviance and Control**3 Credit(s)**

The sociology of deviance and control examines the nature of rule-making and rule-breaking in modern societies. The course includes theoretical considerations of the causes and consequences of deviance.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 447 - Correctional Systems**3 Credit(s)**

This course will focus on corrections as one of the components of the American criminal justice system and its operation within a democratic form of government. The philosophical and historical underpinnings of punishment and correction will be analyzed and compared (e.g., punishment vs. rehabilitation).

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

AND

SOC 346 Minimum Grade: C- OR T

Master of Arts in Cultural Resource Management

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

The goals of the Cultural Resources Management program are to satisfy students' desires for directed study leading to a master's degree in Cultural Resource Management (prehistoric or historical focus), preparing them for advancement in that field or for going on to doctoral studies. All professors of CRM classes in this program have field experience in cultural resource management as archaeologists and/or administrators. They are committed to developing and encouraging students to achieve their academic potential. The degree is delivered through semester based, interactive, Internet courses.

Degree Requirements

Required Core

CRM 500 - Philosophy, Laws, and Standards

3 Credit(s)

This is the introductory course for Cultural Resource Management. It covers the history and philosophy of CRM, the heritage preservation laws that created and govern the field, and current standards and practices of the field.

CRM 510 - Research Methods

3 Credit(s)

This course serves as an introduction to the wide variety of technologies and techniques used in CRM. It will delve into pre-field, field, and post-fieldwork methods as related to developing a research design. Some technologies covered may include: Office Suite, GIS, LiDAR, compositional analysis, and dating techniques. Specific techniques will be adjusted to each student's previous background and technological expertise.

CRM 520 - Report Writing

3 Credit(s)

Central to all good archaeology is the writing of reports. This is especially true in cultural resource management, but these reports have unique requirements. They must meet professional standards, the standards of the agencies responsible for the resources, and they must be written in a way that is understandable to the project sponsors. This course will prepare students to produce well-written reports and correspondence for this profession.

CRM 571 - Archaeological Theory

3 Credit(s)

This is an online course which will cover the central theories that have driven the field of archaeology.

CRM 580 - Internship

3 Credit(s)

This is a practicum in cultural resource management during which the student will work on one or more actual CRM projects at least at the level of assistant project director. The work will be carried out in conjunction with a recognized CRM firm or a land managing agency.

CRM 591 - Thesis

3 Credit(s)

Students work through the research design, organization, and background material that will become their master's thesis. This will include a clear and decisive research question, a brief proposal, a hypothesis, and structural outline, all of which serve as guides in the organization of your thesis. Drafts of a culture history, environmental background and methods sections for the thesis are developed in conjunction with the committee chair.

Grade Mode: Pass/Fail

Prerequisite(s):

Approval of CRM advisor and/or course instructor. CRM 570 is recommended to prepare for this class, but not required.

CRM 592 - Continuing Thesis

1 to 6 Credit(s)

This course is required each fall and spring semester after the student has taken CRM 591 (Thesis) and until successful defense of the thesis.

Grade Mode: Pass/Fail

Context and Content

Complete 12 credits from the following courses selected in consultation with your advisor

ANTH 539 - Archaeology Field School

1 to 6 Credit(s)

Through actual field experience, the student will learn basic techniques of site identification and recording, excavation, and artifact processing and analysis. In addition, they will learn instruments surveying and introductory applications of geographic information systems. The skills taught will be appropriate for either prehistoric or historic sites.

ANTH 579 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

ANTH 592 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

ANTH 599 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Chair.

CRM 530 - Pre-Contact North America

3 Credit(s)

This course is a survey of North American archaeology prior to European contact. Various periods and themes are explored, focusing on the current debates in the field of archaeology and CRM.

CRM 531 - Post-Contact North America

3 Credit(s)

This course is a survey of North American archaeology after European contact. Various periods and themes are explored, focusing on the current debates in the field of archaeology and CRM.

CRM 560 - Applied GIS/CRM Professionals

3 Credit(s)

This course will introduce students to real world applications of Geographical Information Systems (GIS) as it is used in the Cultural Resource Management (CRM) field. Students will learn from applied examples about the critical thinking needed in cartography, digital data management, spatial data collection, resource management, statistical analysis, and visual learning.

CRM 561 - Geoarchaeology

3 Credit(s)

This online course is an introduction to geoarchaeology and the application of the geosciences to archaeological questions and research. This includes topics such as sedimentology, geomorphology, pedology, paleoenvironmental and paleoclimate reconstruction, geochemical provenance studies, Quaternary dating methods, and site formation processes.

CRM 570 - Selected Readings in CRM

3 Credit(s)

This course permits the student to work with an instructor to develop a syllabus of readings on a topic of the student and instructors choice that is not otherwise offered through the institution.

CRM 579 - Special Topics

1 to 6 Credit(s)

This course will be developed by the instructor on topics of interest to the students in the CRM Master's Program that are not otherwise offered in the degree plan.

CRM 580 - Internship

3 Credit(s)

This is a practicum in cultural resource management during which the student will work on one or more actual CRM projects at least at the level of assistant project director. The work will be carried out in conjunction with a recognized CRM firm or a land managing agency.

OR

CRM 581 - Previous Archaeological Experience

3 Credit(s)

This course permits students to receive credit for prior professional employment and/or archaeological research.

Prerequisite(s):

Previous archaeological, museums, historic preservation, or other relevant field experience for a degree in cultural resource management.

Grade Mode: Pass/Fail

CRM 599 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Head.

HIST 501 - State History

3 Credit(s)

A graduate-level survey of the history of a particular state, with emphasis on how meta and national phenomenon impacted a given state, as well as events and phenomena unique to the state.

HIST 505 - American West

3 Credit(s)

This course is a survey of the American West with an emphasis on interpretation by historians. Admission to the Master of Arts program is required.

HIST 520 - Topics in World History

3 Credit(s)

This course will involve intensive reading, analysis, and discussion of selected topics/controversies in world history.

HIST 546 - Borderlands

3 Credit(s)

This course explores borderlands as a site of historical scholarship with special emphasis on the southwestern United States and the United States-Mexico border.

HIST 551 - Atlantic History

3 Credit(s)

This course explores the Atlantic world as a field of historical scholarship with a special focus on European colonization of the Americas, African slavery, and the Age of Revolutions.

HIST 563 - Civil War and Reconstruction

3 Credit(s)

A graduate-level study of the antebellum South, sectional discord, armed conflict, and reconstruction of the Union.

HIST 579 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

Master of Arts in United States History

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

The History, Anthropology, Philosophy, Political Science, Spanish (HAPPSS) Department offers a Master of Arts in United States History. The goals of the United States history program are to satisfy students' desires for additional directed study of United States history, to assist teachers in meeting highly qualified status under NCLB, and to provide access for students to earn an M.A. degree before going on to doctoral studies. All professors in this program hold Ph.D.s and are committed to developing and encouraging students to achieve their academic potential. The degree is delivered using a mixture of face-to-face and Internet courses.

Degree Requirements

Required Core

HIST 500 - Historiography and Historical Methods

3 Credit(s)

A historiographical seminar in which students learn and demonstrate a mastery of a variety of methods historians use to understand the past.

HIST 591 - Thesis

3 Credit(s)

This course is the culminating experience for the MA program in which students demonstrate mastery of the discipline by producing an acceptable Master's Thesis. Successful completion of 21 hours of graduate-level work in History.

Context and Content

24 credit hours from the following menu selected in consultation with department chair.

HIST 501 - State History

3 Credit(s)

A graduate-level survey of the history of a particular state, with emphasis on how meta and national phenomenon impacted a given state, as well as events and phenomena unique to the state.

HIST 505 - American West

3 Credit(s)

This course is a survey of the American West with an emphasis on interpretation by historians. Admission to the Master of Arts program is required.

HIST 507 - Latino History

3 Credit(s)

This course will give special attention to the loss of land in the late nineteenth century, community formation during the early twentieth century, and the Chicano Movement of the late 1960's and early 1970's. At a deeper level, this course explores both the strengths and weaknesses in the relevant historiography and fundamental questions about the practice of history and the forces that form and serve as custodians of memory.

HIST 510 - Teaching History

3 Credit(s)

This course explores best practices and trends in the teaching of history at the secondary and collegiate levels.

HIST 520 - Topics in World History

3 Credit(s)

This course will involve intensive reading, analysis, and discussion of selected topics/controversies in world history.

HIST 521 - Women in US History

3 Credit(s)

This course examines the role of women in American history with special emphasis on how the story of women is told by historians over time. It examines not only the lives of many famous white women, but also the experiences of women from various ethnicities and economic backgrounds. In addressing how Americans construct their understanding of women's lives in the U.S., this course will also reassess how focusing on women's lives might alter one's understanding of the broader patterns and interpretations of American history.

HIST 522 - Gilded Age and Progressive Era

3 Credit(s)

This course examines the United States from the end of Reconstruction through World War I. The Gilded Age covers the period of intense economic expansion after the Civil War, and examines the expansion of big business, the growth of the labor movement, and the crisis of the 1890's. The second half of the course studies the period of intense reform known as the Progressive Era, and concludes with U.S. participation in the First World War. Topics will include American overseas expansion, immigration, the suffrage movement, and the rise of governmental economic regulation.

HIST 526 - U.S. in the Era of World Wars

3 Credit(s)

A study of the United States History during World War I and World War II, or focused on either War, with special attention devoted to diplomatic, social, and political developments of the specific period under study with emphasis on the impact of immigration, urbanization, technology, and America's increasing involvement in world affairs.

HIST 540 - U.S. Presidency

3 Credit(s)

A study of the United States Presidency from 1789 to the present., with special attention devoted to the changing scope and function of the office in the changing context of broader American History. Other topics of particular interest are the key figures who have altered the institution and the role of crises in changing the scope and functioning of the office. The course with separate subtitles can be repeated no more than 3 times.

HIST 546 - Borderlands

3 Credit(s)

This course explores borderlands as a site of historical scholarship with special emphasis on the southwestern United States and the United States-Mexico border.

HIST 550 - US Sports History

3 Credit(s)

A study of the history of sports and leisure in the United States Presidency from colonial times to the present, with special attention devoted to the changing social context in which sporting activities have taken place. Other topics of particular interest are the roles of race and gender in shaping the world of sport, and the roles of marketing, professional organizations, and media such as television in examining how sport has become part of the fabric of American life. This course views sport both as reflective of broader trends in American society but also as a catalyst of change.

HIST 551 - Atlantic History

3 Credit(s)

This course explores the Atlantic world as a field of historical scholarship with a special focus on European colonization of the Americas, African slavery, and the Age of Revolutions.

HIST 563 - Civil War and Reconstruction

3 Credit(s)

A graduate-level study of the antebellum South, sectional discord, armed conflict, and reconstruction of the Union.

HIST 568 - U.S.-Latin American Relations

3 Credit(s)

This course will examine U.S. - Latin Relations from the Monroe doctrine to the present with a more intensive and analytical focus on cold-war relations and the shift to post-cold-war dynamics.

HIST 579 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

HIST 590 - History Practicum

3 Credit(s)

A graduate-level practicum in the development and of United States History curriculum (education and public history).

HIST 592 - Workshop

0.5 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

HIST 599 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Head.

Teaching of History at the College Level Certificate

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

This certificate will appeal to high school educators seeking 18 credit hours to teach college-level credit bearing courses at the secondary level.

Core Courses (6 credits)

HIST 500 - Historiography and Historical Methods

3 Credit(s)

A historiographical seminar in which students learn and demonstrate a mastery of a variety of methods historians use to understand the past.

HIST 510 - Teaching History

3 Credit(s)

This course explores best practices and trends in the teaching of history at the secondary and collegiate levels.

Choose 12 Elective Credits

HIST 501 - State History

3 Credit(s)

A graduate-level survey of the history of a particular state, with emphasis on how meta and national phenomenon impacted a given state, as well as events and phenomena unique to the state.

HIST 505 - American West

3 Credit(s)

This course is a survey of the American West with an emphasis on interpretation by historians. Admission to the Master of Arts program is required.

HIST 507 - Latino History

3 Credit(s)

This course will give special attention to the loss of land in the late nineteenth century, community formation during the early twentieth century, and the Chicano Movement of the late 1960's and early 1970's. At a deeper level, this course explores both the strengths and weaknesses in the relevant historiography and fundamental questions about the practice of history and the forces that form and serve as custodians of memory.

HIST 520 - Topics in World History

3 Credit(s)

This course will involve intensive reading, analysis, and discussion of selected topics/controversies in world history.

HIST 521 - Women in US History

3 Credit(s)

This course examines the role of women in American history with special emphasis on how the story of women is told by historians over time. It examines not only the lives of many famous white women, but also the experiences of

women from various ethnicities and economic backgrounds. In addressing how Americans construct their understanding of women's lives in the U.S., this course will also reassess how focusing on women's lives might alter one's understanding of the broader patterns and interpretations of American history.

HIST 522 - Gilded Age and Progressive Era

3 Credit(s)

This course examines the United States from the end of Reconstruction through World War I. The Gilded Age covers the period of intense economic expansion after the Civil War, and examines the expansion of big business, the growth of the labor movement, and the crisis of the 1890's. The second half of the course studies the period of intense reform known as the Progressive Era, and concludes with U.S. participation in the First World War. Topics will include American overseas expansion, immigration, the suffrage movement, and the rise of governmental economic regulation.

HIST 526 - U.S. in the Era of World Wars

3 Credit(s)

A study of the United States History during World War I and World War II, or focused on either War, with special attention devoted to diplomatic, social, and political developments of the specific period under study with emphasis on the impact of immigration, urbanization, technology, and America's increasing involvement in world affairs.

HIST 527 - The Sixties Era

3 Credit(s)

The events of the 1960's continue to polarize the country today. This course is an in-depth examination of the transformation of the United States between World War II and the 1980's with a focus on the years 1964-1973, during which most of the events of what people understand as The Sixties took place. The major theme will be the transformation of the American political system, the social upheavals and cultural rebellion of the U.S. in the 1960's, the Vietnam War, and the Reagan Era. Of particular concern is how the era and events have been interpreted by scholars over time. This course is part of the core for the M. A. degree program in United States History. This course is designed for delivery through Blackboard and Blackboard Collaborate. It can also be adapted for a hybrid format, or a correspondence format.

HIST 540 - U.S. Presidency

3 Credit(s)

A study of the United States Presidency from 1789 to the present., with special attention devoted to the changing scope and function of the office in the changing context of broader American History. Other topics of particular interest are the key figures who have altered the institution and the role of crises in changing the scope and functioning of the office. The course with separate subtitles can be repeated no more than 3 times.

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3 Credit(s)

This course explores borderlands as a site of historical scholarship with special emphasis on the southwestern United States and the United States-Mexico border.

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3 Credit(s)

A study of the history of sports and leisure in the United States Presidency from colonial times to the present, with special attention devoted to the changing social context in which sporting activities have taken place. Other topics of particular interest are the roles of race and gender in shaping the world of sport, and the roles of marketing, professional organizations, and media such as television in examining how sport has become part of the fabric of American life. This course views sport both as reflective of broader trends in American society but also as a catalyst of change.

HIST 551 - Atlantic History

3 Credit(s)

This course explores the Atlantic world as a field of historical scholarship with a special focus on European colonization of the Americas, African slavery, and the Age of Revolutions.

HIST 563 - Civil War and Reconstruction

3 Credit(s)

A graduate-level study of the antebellum South, sectional discord, armed conflict, and reconstruction of the Union.

HIST 568 - U.S.-Latin American Relations

3 Credit(s)

This course will examine U.S. - Latin Relations from the Monroe doctrine to the present with a more intensive and analytical focus on cold-war relations and the shift to post-cold-war dynamics.

HIST 579 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

HIST 590 - History Practicum

3 Credit(s)

A graduate-level practicum in the development and of United States History curriculum (education and public history).

HIST 592 - Workshop

0.5 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

HIST 599 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Head.

Minor in Anthropology

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

Degree Requirements

There are two possible tracks for the completion of the anthropology minor:

Required Courses

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ANTH 205 - Physical Anthropology

3 Credit(s)

The course will examine physical anthropology as a sub discipline of anthropology. The goal is to understand how the physical realities of being human affects the nature of culture. The central theme will be the evolution of humans from the earliest hominid forms to modern Homo sapiens. The course will focus on the mechanisms of evolution, an understanding of primate behavior in general, and the fossil evidence for hominid development.

ANTH 300 - Archaeology

3 Credit(s)

This course will provide an overview of archaeological method and theory with a particular emphasis on American archeology, and provide a general survey of prehistory with an emphasis on the western United States.

ANTH 310 - Anthropological Linguistics

3 Credit(s)

After a general introduction to the nature of language (descriptive linguistics) this course will focus on human communication and the uses of language (psycholinguistics and sociolinguistics) and on the language cognition relationship (cognitive anthropology and symbolic anthropology).

Plus, Select 2 Courses from the Following Electives

ANTH 330 - Humans and Water

3 Credit(s)

This class will explore the relationship between humans and water through space and time, focusing on the American West. We will look at how different cultural groups interact with and manipulate water, as well as how they view the natural resource. In addition, we will analyze how changes in water resources influenced human cultures.

ANTH 339 - Field School in Archaeology

6 Credit(s)

The purpose of this course is to provide students with the basic skills, and the theories from which they are derived, necessary to do archaeological fieldwork. The student will learn basic techniques of site identification and recording, excavation, and artifact processing and analysis. In addition, they will learn instrument surveying and introductory applications of geographic information systems. The skills taught will be appropriate for either prehistoric or historic sites.

ANTH 360 - Forensic Anthropology

3 Credit(s)

This class examines the science and methods of physical anthropology as it relates to the medico-legal work done to identify unknown human remains in atypical circumstances. This introductory course will introduce students to human osteology and dentition in relation to identifying age, sex, stature, and ancestry, as well as bone pathologies and techniques for estimating time of death and post-mortem changes. As part of the course, some visual materials will depict trauma and decomposition of human remains.

ANTH 349 - Anthropology Internship

3 to 6 Credit(s)

This course provides the student with meaningful hands on experience in the field of Anthropology. Students will engage with internship work at a research library, museum, community organization, government agency, or other applicable institution to enhance their knowledge of sources, research methods, institutional cultures, and potential work environments.

ANTH 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

ANTH 450 - Southwest Archaeology

3 Credit(s)

This course explores the greater Southwest from the earliest human inhabitants to Spanish colonization. We will

discuss significant changes and trends in subsistence, technology, social systems, and political organization over roughly 15,000 years; from hunter-gatherers following mammoths on the landscape to the Pueblo Revolt of 1680. The course will give students an appreciation of the adaptations of people in the Southwest to an often harsh environment, while also introducing them to the methods and theories archaeologists use to understand the past.

ANTH 460 - Medical Anthropology

3 Credit(s)

This course will explore the cross-cultural significance of health and wellness from an anthropological perspective. We will delve into the complex interplay of biological, psychological, social, environmental, and political-economic processes on the concepts of illness, suffering, and healing. Particular emphasis will be placed on the ethnographic approach to the lived context in which wellness and suffering are experienced, narrated, and addressed.

Minor in History

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

Requirements

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

15 Credits of Elective History Courses (300-to 400-level).

Minor in Latino Studies

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

The Latino Studies minor will provide students from departments across campus the opportunity to expand their understanding of economic, social and cultural relationships in an ever more globalized world. This cross-disciplinary minor includes courses from the fields of language, history, literature, sociology and political science. The minor is taught by faculty whose courses touch upon Latino culture, history, politics, language, and society.

Degree Requirements

Completion of the Following Required Course (4 Credits)

SPAN 103 - Elementary Spanish I

4 Credit(s)

A study of the principles of pronunciation, basic level conversation, essentials of grammar, written composition, and reading of materials of graded difficulty.

OR

SPAN 104 - Elementary Spanish II

4 Credit(s)

A continuation of SPAN 103. Covers the principles of pronunciation, conversation, essentials of grammar, written composition, and reading of materials of graded difficulty.

Prerequisite(s):

SPAN 103 Minimum Grade: C- OR T

Elective Courses (15 Hours)

Students must take one course in each of the following disciplines: ENG, POLS, HIST, and SOC from the offerings listed below. The remaining three credit hours may be taken from any of the courses below or any 300 or 400 level Spanish course.

ENG 365 - Ethnic and Minority Literature

3 Credit(s)

A study of the literature of Native American, African-American, Chicano, and other American ethnic and minority groups.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

ENG 375 - Chicano Literature

3 Credit(s)

This course explores the canon of Chicana/o Literature and its multiple influences. Specifically, the course deals with the cultural, political and societal climates that necessitated the literature. The course will focus on oral tradition and its evolution into other genres of Chicana/o Literature (poetry, fiction, & essay). Chicana/o Literature (poetry, fiction, & essay).

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

HIST 328 - Chicano History

3 Credit(s)

A survey of the historical development of the character, economy, social structure, politics, culture, and ideas of the Spanish-speaking people of Mexican descent in the U.S. from settlement until present, with particular attention given to the San Luis Valley.

HIST 355 - Latin America to 1830

3 Credit(s)

A survey of the economic, political, and social dimensions of the colonial system. Themes include the pre-Columbian civilizations of the Americas, the imposition of European rule, the place of Latin America in the emerging Atlantic economy, and the independence movements of the early 19th century. Major emphasis will be given to the "core" areas of Mexico, Peru, and Northeastern Brazil, but other regions will also be considered.

HIST 356 - Latin America Since 1830

3 Credit(s)

This course will examine the evolution of Latin America from the aftermath of independence to the present. Major themes include: the incorporation of Latin America into the global economy, the effect of the export economy on the region's peasant populations, the building of national states, the fate of revolutionary struggles in the 20th century, and Latin America's "neocolonial" relationship with the United States.

HIST 357 - Mexico

3 Credit(s)

Historical survey of the social, intellectual, and political developments from the conquest to the present.

POLS 325 - Political Mvmnts/Latin America

3 Credit(s)

This course broadens students' understanding of Latin America by introducing them to their political aspirations and modes of organization.

POLS 468 - U.S.-Latin American Relations

3 Credit(s)

This course will examine U.S.-Latin American Relations from the Monroe doctrine to the Present. It will explore recent developments in U.S.-Latin American relations, particularly the growing interdependence and the impact of the end of the cold war.

SOC 318 - Race, Class, and Gender

3 Credit(s)

The focus of this course is on the interrelated ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result and the dynamics of change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 365 - Race and Ethnicity in the U.S.

3 Credit(s)

This course provides a sociological approach to race and ethnic relations in the U.S. today. This course introduces the basic sociological theories and perspectives related to the study of race and ethnicity, the histories, and present status of different racial and ethnic groups in the United States and raises questions about continuing racial discrimination and inequality in our society. Issues of defining race, racial identity, interpersonal and institutional discrimination, segregation, and affirmative action (among others) are explored.

Note

ENG 375, HIST 379, POLS 379, and SOC 379 "Special Topics" courses that have content relevant to Latino Studies may also count as electives for the Latino Studies Minor. To determine a course's eligibility for inclusion in the minor, please consult with the student's advisor or the Chair of the HAPSS Department.

Minor in Philosophy

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

Degree Requirements

Required Core

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

Electives (15 hours from the following)

PHIL 202 - Ethics

3 Credit(s)

An examination of criteria governing ethical responses in typical situations as presented by representative thinkers. The application of principles in the development of reasonable standards of conduct and in the formulation of codes of ethics.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

PHIL 300 - Philosophy in Film and Literature

3 Credit(s)

This course will approach film and literature as a manifestation of thought which contains and reveals philosophical reflection and inquiry. The course will provide an exploration of the particular medium that is film, rendering more accessible its unique ways of advancing meaning through the combined and controlled use of color, texture, sound, perspective, transitions, and time, as well as narrative content. Equally, literary pieces will provide an exploration of aspects of the human condition and significant philosophical inquiry through narration, symbolism, tone, and style. Topics to be explored include: Metaphysics, Epistemology, Social/Political Philosophy, Absurdism and Existentialism, Morality and Choice/Free Will, Self and Identity, and Aesthetics.

PHIL 304 - Religions of the Western World

3 Credit(s)

A survey of major religious traditions of the west and their early influences. The course will cover but is not limited to Zoroastrianism, Mithraism, Manichaeism, Greek and Roman, Judaism, Christianity, Islam.

PHIL 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

PHIL 436 - American Thought

3 Credit(s)

The historical, philosophical, and literary ideas that have influenced American life and thought. Same as POLS 436.

PHIL 466 - Ancient Political Theory

3 Credit(s)

The first course of a two-semester course sequence designed to provoke philosophical reflection regarding the

perennial, and still fundamental, questions about man in relation to the state. The first semester will focus on the period from Plato to St. Thomas. Same as POLS 467.

PHIL 467 - Modern Political Theory

3 Credit(s)

The second course of a two-semester course sequence designed to provoke philosophical reflection regarding the perennial, and still fundamental, questions about man in relation to the state. The second-semester course will treat thinkers for Machiavelli through Marx. Same as POLS 467.

PHIL 479 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

Minor in Political Science

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

Degree Requirements

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

15 Elective Credits Chosen in Consultation with Department Head

Minor in Women's and Gender Studies

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

Examine how ideas about gender and sexuality shape social roles and identities within a culture. With a choice of two tracks (Women's Studies and Gender and Sexualities) the minor in Women's and Gender Studies extends and enriches any major degree by heightening your awareness of the range of human experience, potential, and accomplishment.

Women's Studies Track

Students must take 2 required courses and 4 electives, as approved by the WGS advisor, for a total of 18 semester hours.

Required of All Minors, Who Are Advised to Take the Courses Early in Their Studies

WS 201 - Women's Studies

3 Credit(s)

An interdisciplinary analysis of women's position in society as presented through the disciplines of history, sociology, anthropology, theology, psychology, literature, and the fine arts. The course will examine theoretical approaches to the differential access to power between men and women and the existence of patriarchy in Western culture.

ENG 320 - Literature and Sexualities

3 Credit(s)

An examination of a variety of sexual identities and expressions as portrayed in literature.

Two of the Following Courses (6 Hours)

AR 367 - Women Artists in Art History

3 Credit(s)

A survey of women artists in the history of art from antiquity to the present.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

POLS 393 - Women, Politics, and Culture

3 Credit(s)

Interdisciplinary analysis of politics and culture. Course examines the role of gender in the political culture of the United States and selected societies in industrialized and developing nations. Of special interest to those wishing to pursue an interest in women's studies and/or cultural anthropology.

SOC 318 - Race, Class, and Gender

3 Credit(s)

The focus of this course is on the interrelated ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result and the dynamics of change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

THTR 329 - Women and Drama

3 Credit(s)

A survey of the history and literature associated with women in theatre. The course will include the history of actual women involved in the evolution of western and eastern theatre traditions as well as playscripts which deal with the

subject of women's issues. There will be a strong emphasis on the incorporation of contemporary dramatic theory, especially feminist theory, to analyze dramatic texts. The course will cover Greek through Contemporary Drama.

PSYC 360 - Psychology of Gender

3 Credit(s)

This course will examine gender development from a variety of theoretical approaches, including evolutionary, cognitive, social learning, and cross-cultural. Topics will include how gender influences thinking, communication, interpersonal relationships, education, work, and family.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T
AND

PSYC 205 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

One of the Following Courses (3 Hours)

ENG 403 - Shakespeare

3 Credit(s)

Combines study of comedies, histories, and tragedies.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

COMM 420 - Rhetoric of Popular Culture

3 Credit(s)

This course takes seriously the idea human discourse is inherently persuasive. Further, it takes seriously the idea that popular culture is still human culture, and therefore worthy of analysis to understand how it influences human relationships and political struggle. Students will examine the messages and persuasive discourse found in everyday "texts" in film, television, the Internet, music, technology, celebrity, fashion, and other modes of cultural consumption.

COMM 430 - Diversity in Media

3 Credit(s)

Students will analyze how US media represents traditionally marginalized people in the United States. The course will be primarily discussion based, with students and instructor working together to generate ideas and critique dominant ideologies.

Prerequisite(s):

COMM 350 Minimum Grade: C- OR T

One of the Following Courses (3 Hours)

ENG 385 - Women and Literature

3 Credit(s)

A survey of literature written by women beginning with Sappho and focusing on the western tradition. An introduction to feminist literary criticism.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

SOC 419 - Gender and Society

3 Credit(s)

The aim of the course is for students to become familiar with the continuing differences and inequalities between women and men in the contemporary United States, and to begin to explain why and how they occur through a sociological lens. Understanding gender as it relates to other social identities (for example, race, class and sexuality) is an important organizing framework of the course. Students will learn about the gendered arrangements in a variety of social contexts such as education, the media, work and the economy, and the family.

PSYC 375 - Human Sexuality

3 Credit(s)

In this multidisciplinary course, students will be introduced to the physiological, medical, sociological, psychological, legal, ethical, moral, and educational facets of human sexuality. Topics in this course include male and female sexual anatomy and sexual response, contraception and disease control, sexually transmitted diseases, and sexual orientation.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

HIST 320 - History of American Women

3 Credit(s)

This course examines the role of women in American History with special emphasis on how the story of women is told by historians over time. It examines not only the lives of many famous white women, but also the experience of women

from various ethnicities and economic backgrounds. In addressing how Americans construct their understanding of women's lives in the U.S., the course will also reassess how focusing on women's lives might alter one's understanding of the broader patterns and interpretations of American History.

BUS 394 - Women and Power: Gender, Business & Leadership

3 Credit(s)

The rise of women into powerful leadership roles in business, politics, and entrepreneurship is among one of the most profound social transformations in recent decades. This course examines contemporary issues relevant to women as leaders. Topics include recent research on women and applied leadership in the workplace; skills and strategies for negotiation, coalition-building and influencing the career path to leadership, and discussions by women from diverse personal and professional backgrounds with similar levels of career achievement.

Gender and Sexualities Track

Students must take 2 required courses and 4 electives, as approved by the WGS advisor, for a total of 18 semester hours.

Required of All Minors, Who Are Advised to Take the Courses Early in Their Studies

ENG 320 - Literature and Sexualities

3 Credit(s)

An examination of a variety of sexual identities and expressions as portrayed in literature.

WS 201 - Women's Studies

3 Credit(s)

An interdisciplinary analysis of women's position in society as presented through the disciplines of history, sociology, anthropology, theology, psychology, literature, and the fine arts. The course will examine theoretical approaches to the differential access to power between men and women and the existence of patriarchy in Western culture.

Two of the Following Courses (6 credits)

COMM 420 - Rhetoric of Popular Culture

3 Credit(s)

This course takes seriously the idea human discourse is inherently persuasive. Further, it takes seriously the idea that popular culture is still human culture, and therefore worthy of analysis to understand how it influences human relationships and political struggle. Students will examine the messages and persuasive discourse found in everyday "texts" in film, television, the Internet, music, technology, celebrity, fashion, and other modes of cultural consumption.

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Prerequisite(s):

COMM 350 Minimum Grade: C- OR T

ENG 403 - Shakespeare

3 Credit(s)

Combines study of comedies, histories, and tragedies.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

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ENG 210 Minimum Grade: C- OR T

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3 Credit(s)

This course will examine gender development from a variety of theoretical approaches, including evolutionary, cognitive, social learning, and cross-cultural. Topics will include how gender influences thinking, communication, interpersonal relationships, education, work, and family.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

One of the Following Courses (3 credits)

AR 367 - Women Artists in Art History

3 Credit(s)

A survey of women artists in the history of art from antiquity to the present.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

HIST 320 - History of American Women

3 Credit(s)

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SOC 318 - Race, Class, and Gender

3 Credit(s)

The focus of this course is on the interrelated ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result and the dynamics of change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

THTR 329 - Women and Drama

3 Credit(s)

A survey of the history and literature associated with women in theatre. The course will include the history of actual women involved in the evolution of western and eastern theatre traditions as well as playscripts which deal with the subject of women's issues. There will be a strong emphasis on the incorporation of contemporary dramatic theory, especially feminist theory, to analyze dramatic texts. The course will cover Greek through Contemporary Drama.

One of the Following Courses (3 credits)

BUS 394 - Women and Power: Gender, Business & Leadership

3 Credit(s)

The rise of women into powerful leadership roles in business, politics, and entrepreneurship is among one of the most profound social transformations in recent decades. This course examines contemporary issues relevant to women as leaders. Topics include recent research on women and applied leadership in the workplace; skills and strategies for negotiation, coalition-building and influencing the career path to leadership, and discussions by women from diverse personal and professional backgrounds with similar levels of career achievement.

ENG 385 - Women and Literature

3 Credit(s)

A survey of literature written by women beginning with Sappho and focusing on the western tradition. An introduction to feminist literary criticism.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

POLS 393 - Women, Politics, and Culture

3 Credit(s)

Interdisciplinary analysis of politics and culture. Course examines the role of gender in the political culture of the United States and selected societies in industrialized and developing nations. Of special interest to those wishing to pursue an interest in women's studies and/or cultural anthropology.

PSYC 375 - Human Sexuality

3 Credit(s)

In this multidisciplinary course, students will be introduced to the physiological, medical, sociological, psychological, legal, ethical, moral, and educational facets of human sexuality. Topics in this course include male and female sexual anatomy and sexual response, contraception and disease control, sexually transmitted diseases, and sexual orientation.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

SOC 419 - Gender and Society

3 Credit(s)

The aim of the course is for students to become familiar with the continuing differences and inequalities between women and men in the contemporary United States, and to begin to explain why and how they occur through a sociological lens. Understanding gender as it relates to other social identities (for example, race, class and sexuality) is an important organizing framework of the course. Students will learn about the gendered arrangements in a variety of social contexts such as education, the media, work and the economy, and the family.

Languages, Literature, and Media Communication

Return to: School of Humanities and Social Sciences (SHSS)

Faculty

Department Chair

- Beth Bonnstetter, Ph.D.

Professors

- Beth Bonnstetter, Ph.D.

Assistant Professors

- Meliza Ramirez, Ph.D.

Course List

All Languages, Literature, and Media Communication Courses

Bachelor of Arts in Communication and Media Studies

Go to: Languages, Literature, and Media Communication

The Communication and Media Studies major encourages you to apply reading, writing and critical thinking skills within a multimedia environment. Through coursework, student media groups, and hands-on projects, you'll examine and appraise different media, including written, studio, and video materials. You'll have access to broadcasting equipment and video-editing software and equipment, as well as opportunities to work for the The Paw Print student newspaper, student streaming radio and more.

Upon graduation, you'll demonstrate competence in a variety of media forms and techniques. The skills and knowledge you gain at Adams State will prepare you for many career paths, broadcasting, video production, social media, graduate school, and a variety of other communication-oriented careers.

Specific Courses Required for This Degree

SPCH 100 - Speech Fundamentals

3 Credit(s)

A course designed to develop proficiency in oral communication: interpersonal, group, and public discourse.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

COMM 230 - Media Writing

3 Credit(s)

Students will survey the fundamental types of media writing, including inverted pyramid news writing, feature writing, blogging, and screenplays. News literacy will also be covered.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

COMM 280 - Visual Literacy

3 Credit(s)

This course will decode the messages behind visual communication by covering concepts of photography, television, film, digital imagery, social media, video games, etc. Students will interrogate visual meaning, and even create visual messages using standard industry practices.

Prerequisite(s):

ENG 102 Minimum Grade: C-

COMM 293 - Media Practicum

3 Credit(s)

Students will work hands-on to learn various media industry-related skills. Students will deejay for Grizz Sound, and/or create podcasts, write for The Paw Print, and create a short video piece.

Prerequisite(s):

COMM 230 Minimum Grade: C- OR T

COMM 345 - Business of Radio and TV

3 Credit(s)

This course is designed for majors of Communication & Media, Media Industry & Communication, Public Relations, and other majors who are interested in careers in the radio and television industries. Students will study in-depth as to how the radio and television industries operate.

COMM 350 - Media Theory and Criticism

3 Credit(s)

Students will explore various theories that explain the nature of mass communication, the impact that media have on society, and the trends in media consumption. Particular emphasis will be placed on propaganda, violence in media, information processing, media monopolies, and critical media consumption. Students will be expected to track current media and debate contemporary media controversies in class.

Prerequisite(s):

COMM 255 Minimum Grade: C- OR T

COMM 355 - Public Relations and Strategic Communication

3 Credit(s)

Students will study the theoretical and practical elements of the field of public relations and the use of strategic communication. Student will then compose public relations materials applying the elements studied.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

COMM 425 - Media Research Methods

3 Credit(s)

Students will examine the prominent methods of media research, including quantitative and qualitative research, reliability and validity, specific methods used in the industry, the Nielsen ratings, and market trends.

Prerequisite(s):

ENG 102 Minimum Grade: C-

COMM 430 - Diversity in Media

3 Credit(s)

Students will analyze how US media represents traditionally marginalized people in the United States. The course will be primarily discussion based, with students and instructor working together to generate ideas and critique dominant ideologies.

Prerequisite(s):

COMM 350 Minimum Grade: C- OR T

COMM 457 - First Amendment and Copyright

3 Credit(s)

This course explores the First Amendment of the U.S. Constitution and current U.S. copyright laws, and how they apply to and affect both media practitioners and U.S. citizens.

Prerequisite(s):

COMM 255 Minimum Grade: C- OR T
AND

COMM 275 Minimum Grade: C- OR T

BUS 448 - Interactive/Social Media Marketing

3 Credit(s)

This course focuses on relationship marketing, interactive marketing, integration of consumer data, Internet marketing (E-commerce), media advertising, catalogs, mailing lists, telemarketing, and the use of direct marketing techniques to replace or enhance the traditional marketing methods of retail and direct sales.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

COMM 495 - Communication Capstone

3 Credit(s)

This course is designed to be the academic capstone experience for all students who are majoring in Communication & Media or Public Relations and to prepare students for a career in the media industry and/or for graduate studies in the field. Subject matter will vary depending upon the instructor's specialization or area of interest. All capstone students will conduct a major research project that reflects the student's mastery of library usage, research methodology, breadth of knowledge, critical thinking, and writing ability.

Choose Two of the Following (6 Credit Hours)

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 310 - Photoshop

3 Credit(s)

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T

OR

AR 281 Minimum Grade: C- OR T

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 345 - Advertising

3 Credit(s)

Discusses the history, purposes, and regulations of the advertising industry. Topics covered include creative principles, media advantages and disadvantages, media planning, regulation of advertising, and coordination with other promotion activities.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 385 - Sports Marketing

3 Credit(s)

Illustrates the dynamic, progressive and influential nature of sports marketing. Explores the sport marketing concept as a consumer-driven, integrated, goal-oriented philosophy for a team, event, organization or athlete. Topics covered include: athletic endorsements, team sports, event sponsorships and alternative sports.

BUS 468 - New Business Venturing

3 Credit(s)

This course introduces students to starting and operating a business. Students will be exposed to how business interacts with government, financial institutions, and society. This course will examine and study the process, challenges, risks, and rewards of starting up a new business. The student will be equipped with tools required to start their own business.

Prerequisite(s):

BUS 365 Minimum Grade: C-

COMM 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student interests in the field.

COMM 496 - Communication Internship

1 to 3 Credit(s)

Advanced communication students will work in a pre-employment capacity in the field of communications/journalism (broadcasting, video, print, satellite, or computing), applying learned skills in a working environment.

Note

*May require prerequisite

A minor in an area of specialization is recommended.

Bachelor of Arts in Elementary Education Licensure, Literacy Emphasis

Go to: Bachelor of Arts in Elementary Education
Go to: Languages, Literature, and Media Communication

Degree Requirements

- Completion of requirements for a bachelor's degree
- A minimum of 120 academic (non-PE) semester hours of credit.
- At least 42 academic credits must be upper division (300- to 400-level).
- A cumulative scholastic average of 2.0.
- General education courses must be completed with an average GPA of at least 2.0.
- All general education, major, minor, area of concentration, or teacher licensure requirements must be satisfied.
- All students must demonstrate writing proficiency by the end of the sophomore year.
- No D grade may apply to a major or minor field.
- For elementary education licensure, students must complete the Content Area Emphasis and Bachelor of Arts in Interdisciplinary Studies Degree Requirements

Required Courses for Emphasis

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T
AND

ENG 102 Minimum Grade: C- OR T

ENG 226 - Introduction to Linguistics

3 Credit(s)

This course is an in-depth introduction to linguistics. It will include discussion of the syntax, phonology, morphology, semantics, and pragmatics of English. Additionally it may include a basic introduction to issues such as historical linguistics, first and second language acquisition, psycholinguistics, sociolinguistics, and other issues relevant to the field.

Prerequisite(s):

ENG-101 Minimum Grade: C- OR T

ENG 227 - Introduction to Creative Writing

3 Credit(s)

Students write and read poetry, fiction, creative nonfiction, and drama, develop aesthetic standards, and evaluate their writing and that of their classmates. Course emphasizes the writing process, including strategies for invention and

revision, and presents ideas for teaching creative writing.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

- One literature course, 300 level or above
- One writing course, 300 level or above
- One English elective, 300 level or above (or a COMM or THTR course upon department chair approval)

Plus Additional Elementary Education Licensure Requirements from the School of Education

Bachelor of Arts in Elementary Education

Bachelor of Arts in Elementary Education Licensure, Spanish Emphasis

Go to: Bachelor of Arts in Elementary Education

Go to: Languages, Literature, and Media Communication

Required Spanish Courses for Spanish Emphasis

SPAN 103 - Elementary Spanish I

4 Credit(s)

A study of the principles of pronunciation, basic level conversation, essentials of grammar, written composition, and reading of materials of graded difficulty.

SPAN 104 - Elementary Spanish II

4 Credit(s)

A continuation of SPAN 103. Covers the principles of pronunciation, conversation, essentials of grammar, written composition, and reading of materials of graded difficulty.

Prerequisite(s):

SPAN 103 Minimum Grade: C- OR T

SPAN 203 - Intermediate Spanish I

3 Credit(s)

Review of grammar, written composition, and translation. Special attention to vocabulary building. Emphasis on understanding and speaking Spanish.

Prerequisite(s):

SPAN 104 Minimum Grade: C- OR T

SPAN 204 - Reading and Conversation

3 Credit(s)

Readings on cultural topics, discussions, speaking activities, review of some grammatical features, attention to vocabulary building. Emphasis on understanding and speaking Spanish.

Prerequisite(s):

SPAN 203 Minimum Grade: C- OR T

- 300-400 level SPAN Elective
- 300-400 level SPAN Elective

Plus Additional Elementary Education Licensure Requirements from the School of Education

Bachelor of Arts in Elementary Education

Bachelor of Arts in English, Creative Writing Emphasis

Go to: Languages, Literature, and Media Communication

Required Courses (33 hours)

ENG 226 - Introduction to Linguistics

3 Credit(s)

This course is an in-depth introduction to linguistics. It will include discussion of the syntax, phonology, morphology, semantics, and pragmatics of English. Additionally it may include a basic introduction to issues such as historical linguistics, first and second language acquisition, psycholinguistics, sociolinguistics, and other issues relevant to the field.

Prerequisite(s):

ENG-101 Minimum Grade: C- OR T

ENG 227 - Introduction to Creative Writing

3 Credit(s)

Students write and read poetry, fiction, creative nonfiction, and drama, develop aesthetic standards, and evaluate their writing and that of their classmates. Course emphasizes the writing process, including strategies for invention and revision, and presents ideas for teaching creative writing.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

ENG 309 - British Literature I: Monsters and Magic

3 Credit(s)

This course is the first of a two-course historical survey of British Literature from the sixth to the twenty-first centuries. English 309 starts with the pre-Norman writers and ends in the mid eighteenth century. Eng. 310 begins with the eighteenth century and ends with contemporary authors. This combination of courses will lay the foundation for more advanced, focused study of specific authors and periods in the British literary tradition. Neither 309 or 310 will assume the other as a prerequisite.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 310 - British Literature II: Bodies and Empire

3 Credit(s)

This course is the second of a two-course historical survey of British Literature from the sixth to the twenty-first centuries. English 309 starts with the pre-Norman writers and ends in the mid eighteenth century. Eng. 310 begins with the eighteenth century and ends with contemporary authors. This combination of courses will lay the foundation for more advanced, focused study of specific authors and periods in the British literary tradition. Neither 309 or 310 will assume the other as a prerequisite.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 363 - Professionalization and Publishing

3 Credit(s)

Students will practice writing at an intensive level beyond the research or argument papers they wrote in English 102, and beyond the literary critiques they have written for literature courses. Instruction will focus on real-world skills and practical applications for writing. The course will also discuss writing-related career paths and professionalization techniques. Except for the senior capstone course, the writing here includes the ultimate writing tasks of the students undergraduate career. It is expected that several items from this course will contribute to the students' senior portfolio.

Prerequisite(s):

Junior or Senior Standing

ENG 365 - Ethnic and Minority Literature

3 Credit(s)

A study of the literature of Native American, African-American, Chicano, and other American ethnic and minority groups.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

ENG 394 - American Literature I: Discovery and Colonization

3 Credit(s)

Several of the figures studied in this class-such as Christopher Columbus, Anne Bradstreet, Hector St. Jean de Crevecoeur, and Thomas Jefferson-are frequently referenced in contemporary discussions of the American "character," yet are poorly understood by most. A basic knowledge of the literatures of colonial America and the early United States deepens students' understanding of these figures, and hence of American history, culture, politics, and identity. This course complements American Literature II and is required of all English liberal arts and secondary education majors.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 395 - American Literature II: Marginalized Voices

3 Credit(s)

Survey of American literature from 1865 to the present. Thematic emphases include the development of African American, Native American, and feminist literary traditions; industrialization, urbanization, and the closing of the frontier; realism, naturalism, and modernism; the Lost Generation; and the Sixties and postmodernism.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 403 - Shakespeare

3 Credit(s)

Combines study of comedies, histories, and tragedies.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

OR

ENG 407 - Chaucer: Epics and Dirty Jokes

3 Credit(s)

Concentrates mainly on the Canterbury Tales, but covers other major works as time permits.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

ENG 480 - Contemporary Literary Theory

3 Credit(s)

Study of the developments of literary critical theory and practice from the beginning of the 20th century to the present. Some emphasis on important earlier theories as they relate to contemporary developments.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 497 - Capstone Writing Workshop

3 Credit(s)

This course is designed as a capstone for all Creative Writing majors. The content of the course will focus on organization, editing, and honing of a final writing project.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

AND

ENG 214 Minimum Grade: C- OR T

OR

THTR 213 Minimum Grade: C- OR T

AND

ENG 227 Minimum Grade: C- OR T

AND

ENG 326 Minimum Grade: C- OR T

AND

ENG 327 Minimum Grade: C- OR T

AND

ENG 328 Minimum Grade: C- OR T

Two Courses from the following (6 hours)

ENG 413 - World-Building: SciFi/Horror/Fantasy

3 Credit(s)

Students will further develop their craft and creativity in the genres of science fiction, fantasy, and horror through

developing all elements of fiction and adding research and world-building. Students will submit their original writing, read works of published speculative fiction, science fiction, fantasy, and horror, and critique their own work and the work of their classmates.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T
AND

ENG 227 Minimum Grade: C- OR T

AND

ENG 327 Minimum Grade: C- OR T

ENG 326 - Creative Writing Poetry Workshop I

3 Credit(s)

This course will teach students to develop their craft and creativity in the genre of poetry. Students submit original poems weekly, read selected works of contemporary, published poetry, and critique their own work and that of their classmates. Students practice revision and submit revised work in a final portfolio of at least 10 pages.

Prerequisite(s):

ENG 227 Minimum Grade: C- OR T
AND

ENG 210 Minimum Grade: C- OR T

OR

ENG 203 Minimum Grade: C- OR T

ENG 327 - Fiction Workshop I

3 Credit(s)

This course will teach students to develop creativity in the genre of prose fiction (short story). Students will submit their original writing, read works of published fiction, and critique their own work and the work of their classmates.

Prerequisite(s):

ENG 227 Minimum Grade: C- OR T

ENG 328 - Creative Nonfiction I

3 Credit(s)

This course covers techniques in nonfiction writing encompassing a variety of styles, forms, and topics, encouraging exploration of the genre's innumerable possibilities while developing the student's personal and critical theories of writing.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T
AND

ENG 227 Minimum Grade: C- OR T

Two Courses from the following (6 hours)

ENG 301 - The Graphic Novel

3 Credit(s)

This course will discuss the form, history, context, and influence of graphic novels.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

ENG 322 - Interactive Storytelling

3 Credit(s)

This course is a survey of forms of interactive literature encompassing media (e.g. video games, interactive films, collaborative stories, role-playing games, gamebooks, new intersections of interactive art and technology). This course will include strategies for creating interactive stories with the goal of broadening and developing the students' own skills in generating or facilitating interactive stories.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T
AND

ENG 227 Minimum Grade: C- OR T

ENG 426 - Poetry Workshop II

3 Credit(s)

This course will teach students to further develop their craft and creativity in the genre of poetry. Students will submit original poems weekly, read selected works of contemporary published poetry, and critique their own work and the work of their classmates. They will practice revision and submit revised work in a portfolio of at least 15 pages.

Prerequisite(s):

ENG 326 Minimum Grade: C- OR T

ENG 427 - Fiction Workshop II

3 Credit(s)

This course will teach students to further develop their craft and creativity in the genre of prose fiction (short story). Students will submit their original writing, read works of published fiction, and critique their own work and the work of their classmates.

Prerequisite(s):

ENG 327 Minimum Grade: C- or T

ENG 428 - Creative Nonfiction II

3 Credit(s)

This course covers advanced techniques in nonfiction writing begun in ENG 328 as the student assembles a portfolio of work suitable for application to graduate programs.

Prerequisite(s):

ENG 328 Minimum Grade: C- OR T

- Summer Writing Workshops as approved by advisor

Overall total required credits for B.A. English Creative Writing 45 hours

Bachelor of Arts in English, Literature Emphasis

Go to: Languages, Literature, and Media Communication

Program Requirements (45 credits total)

Required Courses (36 credits)

ENG 226 - Introduction to Linguistics

3 Credit(s)

This course is an in-depth introduction to linguistics. It will include discussion of the syntax, phonology, morphology, semantics, and pragmatics of English. Additionally it may include a basic introduction to issues such as historical linguistics, first and second language acquisition, psycholinguistics, sociolinguistics, and other issues relevant to the field.

Prerequisite(s):

ENG-101 Minimum Grade: C- OR T

ENG 227 - Introduction to Creative Writing

3 Credit(s)

Students write and read poetry, fiction, creative nonfiction, and drama, develop aesthetic standards, and evaluate their writing and that of their classmates. Course emphasizes the writing process, including strategies for invention and revision, and presents ideas for teaching creative writing.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

ENG 309 - British Literature I: Monsters and Magic

3 Credit(s)

This course is the first of a two-course historical survey of British Literature from the sixth to the twenty-first centuries. English 309 starts with the pre-Norman writers and ends in the mid eighteenth century. Eng. 310 begins with the eighteenth century and ends with contemporary authors. This combination of courses will lay the foundation for more advanced, focused study of specific authors and periods in the British literary tradition. Neither 309 or 310 will assume the other as a prerequisite.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 310 - British Literature II: Bodies and Empire

3 Credit(s)

This course is the second of a two-course historical survey of British Literature from the sixth to the twenty-first centuries. English 309 starts with the pre-Norman writers and ends in the mid eighteenth century. Eng. 310 begins with the eighteenth century and ends with contemporary authors. This combination of courses will lay the foundation for more advanced, focused study of specific authors and periods in the British literary tradition. Neither 309 or 310 will assume the other as a prerequisite.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 363 - Professionalization and Publishing

3 Credit(s)

Students will practice writing at an intensive level beyond the research or argument papers they wrote in English 102, and beyond the literary critiques they have written for literature courses. Instruction will focus on real-world skills and practical applications for writing. The course will also discuss writing-related career paths and professionalization techniques. Except for the senior capstone course, the writing here includes the ultimate writing tasks of the students undergraduate career. It is expected that several items from this course will contribute to the students' senior portfolio.

Prerequisite(s):

Junior or Senior Standing

ENG 365 - Ethnic and Minority Literature

3 Credit(s)

A study of the literature of Native American, African-American, Chicano, and other American ethnic and minority groups.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

ENG 394 - American Literature I: Discovery and Colonization

3 Credit(s)

Several of the figures studied in this class-such as Christopher Columbus, Anne Bradstreet, Hector St. Jean de Crevecoeur, and Thomas Jefferson-are frequently referenced in contemporary discussions of the American "character," yet are poorly understood by most. A basic knowledge of the literatures of colonial America and the early United States deepens students' understanding of these figures, and hence of American history, culture, politics, and identity. This course complements American Literature II and is required of all English liberal arts and secondary education majors.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 395 - American Literature II: Marginalized Voices

3 Credit(s)

Survey of American literature from 1865 to the present. Thematic emphases include the development of African American, Native American, and feminist literary traditions; industrialization, urbanization, and the closing of the frontier; realism, naturalism, and modernism; the Lost Generation; and the Sixties and postmodernism.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 403 - Shakespeare

3 Credit(s)

Combines study of comedies, histories, and tragedies.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 480 - Contemporary Literary Theory

3 Credit(s)

Study of the developments of literary critical theory and practice from the beginning of the 20th century to the present. Some emphasis on important earlier theories as they relate to contemporary developments.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 490 - Major Authors

3 Credit(s)

Study of major figures in fiction, dramatic literature, and poetry. Author(s) will be selected by instructor. Students may repeat this course for credit if the course material is significantly different from the previously taken course. Students should consult with their advisor about course selection.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 495 - Senior Seminar

3 Credit(s)

This course is designed to be the academic capstone experience for all students who are majoring in English/Liberal Arts and to prepare students for graduate studies in the field. Subject matter will vary depending upon the instructor's specialization or area of interest. All seminar students will write a major research essay that reflects the student's mastery of library usage, research methodology, breadth of knowledge, critical thinking, and writing ability.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

Plus 300 and 400-level English Literature Electives Approved by Advisor

Bachelor of Arts in English, Secondary Teacher Licensure

Go to: Bachelor of Arts, Secondary Education Licensure
Go to: Languages, Literature, and Media Communication

1. Complete the Following Required Courses

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T
AND

ENG 102 Minimum Grade: C- OR T

ENG 226 - Introduction to Linguistics

3 Credit(s)

This course is an in-depth introduction to linguistics. It will include discussion of the syntax, phonology, morphology, semantics, and pragmatics of English. Additionally it may include a basic introduction to issues such as historical linguistics, first and second language acquisition, psycholinguistics, sociolinguistics, and other issues relevant to the field.

Prerequisite(s):

ENG-101 Minimum Grade: C- OR T

ENG 227 - Introduction to Creative Writing

3 Credit(s)

Students write and read poetry, fiction, creative nonfiction, and drama, develop aesthetic standards, and evaluate their writing and that of their classmates. Course emphasizes the writing process, including strategies for invention and revision, and presents ideas for teaching creative writing.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

ENG 309 - British Literature I: Monsters and Magic

3 Credit(s)

This course is the first of a two-course historical survey of British Literature from the sixth to the twenty-first centuries. English 309 starts with the pre-Norman writers and ends in the mid eighteenth century. Eng. 310 begins with the eighteenth century and ends with contemporary authors. This combination of courses will lay the foundation for more advanced, focused study of specific authors and periods in the British literary tradition. Neither 309 or 310 will assume the other as a prerequisite.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 310 - British Literature II: Bodies and Empire

3 Credit(s)

This course is the second of a two-course historical survey of British Literature from the sixth to the twenty-first centuries. English 309 starts with the pre-Norman writers and ends in the mid eighteenth century. Eng. 310 begins with the eighteenth century and ends with contemporary authors. This combination of courses will lay the foundation for more advanced, focused study of specific authors and periods in the British literary tradition. Neither 309 or 310 will assume the other as a prerequisite.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 314 - Adolescent Literature

3 Credit(s)

A course designed to acquaint prospective teachers of English with representative literature of adolescence.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

ENG 316 - Methods/English in Secondary School

3 Credit(s)

A study of effective teaching methods used in presenting grammar, composition, and literature to junior and senior school students. Usually taken as part of the Education licensure senior block. Students should have a strong preparation in upper-division English content courses. Admission to the Teacher Education Program is required. This course must be taken along with other courses designated in the senior block. Students wishing to take the course who do not meet the above requirements must obtain instructor permission.

Prerequisite(s):

ED 200 Minimum Grade: C OR T

AND

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

AND

ENG 226 Minimum Grade: C- OR T

AND

Admission to the Educator Preparation Program

AND

Teacher Education Background Check Passed

AND

ED 220 Minimum Grade: T

ENG 357 - Studies in Linguistics

3 Credit(s)

This course is an in-depth study of topics related to linguistics. These topics may include historical linguistics, first and second language acquisition, psycholinguistics or sociolinguistics.

Prerequisite(s):

ENG 226 Minimum Grade: C- OR T

ENG 359 - Mythology

3 Credit(s)

An in-depth study of world mythology to familiarize students with major cultural and literary traditions.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 358 - Bible as Literature

3 Credit(s)

This course analyzes the Bible as literature, examines the use of biblical motifs, imagery, and themes in post-biblical texts, and explores the First Amendment challenges confronting those who plan to teach Bible-as-literature courses in the public schools.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

ENG 363 - Professionalization and Publishing

3 Credit(s)

Students will practice writing at an intensive level beyond the research or argument papers they wrote in English 102, and beyond the literary critiques they have written for literature courses. Instruction will focus on real-world skills and practical applications for writing. The course will also discuss writing-related career paths and professionalization techniques. Except for the senior capstone course, the writing here includes the ultimate writing tasks of the students undergraduate career. It is expected that several items from this course will contribute to the students' senior portfolio.

Prerequisite(s):

Junior or Senior Standing

ENG 365 - Ethnic and Minority Literature

3 Credit(s)

A study of the literature of Native American, African-American, Chicano, and other American ethnic and minority groups.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

OR

ENG 375 - Chicano Literature**3 Credit(s)**

This course explores the canon of Chicana/o Literature and its multiple influences. Specifically, the course deals with the cultural, political and societal climates that necessitated the literature. The course will focus on oral tradition and its evolution into other genres of Chicana/o Literature (poetry, fiction, & essay). Chicana/o Literature (poetry, fiction, & essay).

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 394 - American Literature I: Discovery and Colonization**3 Credit(s)**

Several of the figures studied in this class-such as Christopher Columbus, Anne Bradstreet, Hector St. Jean de Crevecoeur, and Thomas Jefferson-are frequently referenced in contemporary discussions of the American "character," yet are poorly understood by most. A basic knowledge of the literatures of colonial America and the early United States deepens students' understanding of these figures, and hence of American history, culture, politics, and identity. This course complements American Literature II and is required of all English liberal arts and secondary education majors.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 395 - American Literature II: Marginalized Voices**3 Credit(s)**

Survey of American literature from 1865 to the present. Thematic emphases include the development of African American, Native American, and feminist literary traditions; industrialization, urbanization, and the closing of the frontier; realism, naturalism, and modernism; the Lost Generation; and the Sixties and postmodernism.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 403 - Shakespeare

3 Credit(s)

Combines study of comedies, histories, and tragedies.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

**Plus Additional Secondary Education Licensure Requirements from
the School of Education**

Bachelor of Arts, Secondary Education Licensure

**Bachelor of Arts in Media, Industry, and Communication
(online only)**

Go to: Languages, Literature, and Media Communication

Specific courses required for this degree:

Communication requirements (42 hours)

COMM 100 - Public Speaking

3 Credit(s)

Students will learn the theories behind and the techniques of public speaking. Students will compose, videotape, and upload speeches on various topics and various styles for peer and instructor critique. Students will also learn about the various models of public speaking and the fundamentals of communication theory.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

COMM 230 - Media Writing

3 Credit(s)

Students will survey the fundamental types of media writing, including inverted pyramid news writing, feature writing, blogging, and screenplays. News literacy will also be covered.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

COMM 293 - Media Practicum

3 Credit(s)

Students will work hands-on to learn various media industry-related skills. Students will deejay for Grizz Sound, and/or create podcasts, write for The Paw Print, and create a short video piece.

Prerequisite(s):

COMM 230 Minimum Grade: C- OR T

COMM 327 - Social Media

3 Credit(s)

Surveys the history of the early Internet and the transition to Web 2.0. Students will apply this knowledge by designing, creating, and developing social media presence for non-profits, local municipalities, etc., and training the recipients on how to maintain their social media presence

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

COMM 345 - Business of Radio and TV

3 Credit(s)

This course is designed for majors of Communication & Media, Media Industry & Communication, Public Relations, and other majors who are interested in careers in the radio and television industries. Students will study in-depth as to how the radio and television industries operate.

COMM 355 - Public Relations and Strategic Communication

3 Credit(s)

Students will study the theoretical and practical elements of the field of public relations and the use of strategic communication. Student will then compose public relations materials applying the elements studied.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

COMM 365 - Digital Filmmaking

3 Credit(s)

This course covers the aesthetics and practice of narrative, documentary, and experimental media production using a variety of digital filmmaking tools including digital photography, digital video, audio recorders, and editing software. Students will complete video products they can post to YouTube and similar sites.

Prerequisite(s):

COMM 230 Minimum Grade: C- OR T

COMM 380 - Spanish Media

3 Credit(s)

Students will examine the issues facing Spanish-speaking media in the United States, as well as its business model and the skills needed to enter the field. Bilingual recommended but not required.

Prerequisite(s):

COMM 345 Minimum Grade: C- OR T

COMM 425 - Media Research Methods

3 Credit(s)

Students will examine the prominent methods of media research, including quantitative and qualitative research, reliability and validity, specific methods used in the industry, the Nielsen ratings, and market trends.

Prerequisite(s):

ENG 102 Minimum Grade: C-

COMM 430 - Diversity in Media

3 Credit(s)

Students will analyze how US media represents traditionally marginalized people in the United States. The course will be primarily discussion based, with students and instructor working together to generate ideas and critique dominant ideologies.

Prerequisite(s):

COMM 350 Minimum Grade: C- OR T

COMM 457 - First Amendment and Copyright

3 Credit(s)

This course explores the First Amendment of the U.S. Constitution and current U.S. copyright laws, and how they

apply to and affect both media practitioners and U.S. citizens.

Prerequisite(s):

COMM 255 Minimum Grade: C- OR T
AND

COMM 275 Minimum Grade: C- OR T

COMM 496 - Communication Internship

1 to 3 Credit(s)

Advanced communication students will work in a pre-employment capacity in the field of communications/journalism (broadcasting, video, print, satellite, or computing), applying learned skills in a working environment.

Note

An E-Portfolio of the student's work must be submitted during the senior year.

Guidelines for assembling the portfolio and deadlines for submissions are available from the department chair, the program coordinator or major advisor.

A minor in an area of specialization is recommended.

A minor in business or marketing is especially recommended.

Students must have at least 42 credit hours in 300 or 400 level courses to graduate.

Students must take the online interdisciplinary first year seminar and capstone.

Bachelor of Arts in Spanish, Liberal Arts Emphasis

Go to: Languages, Literature, and Media Communication

This program offers a wide variety of classes covering the language, literature, and culture of Spain and Latin America. There are also career-oriented classes such as Spanish for Translation, Spanish for Health Professions, and Spanish for Business.

Required Core

SPAN 313 - Conversation and Composition

3 Credit(s)

This course provides instruction in the development of advanced level conversation and writing skills (spelling, paragraphs, summaries, letters, reports, etc.) in Spanish. The student will acquire the useful everyday skills needed to communicate in Spanish correctly.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 350 - Advanced Grammar and Composition

3 Credit(s)

Intensive course in grammar and in the writing composition of the language. Advanced grammar principles, translation from English to Spanish and other language refinements.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

Civilization and Culture Courses

SPAN 325 - Spanish Civilization and Culture

3 Credit(s)

Instruction on selected themes taken from the historical legacy and cultural institutions of the Spanish people. The cultural topics include reading on: the Roman legacy, the church, the Moors, the great writers of the Golden Age, the great Spanish monarchs, Franco, etc. The selected themes will determine the supplemental readings that are selected in depth discussion and study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

OR

SPAN 326 - Latin American Civilization and Culture

3 Credit(s)

Instruction on selected themes taken from the historical and literary legacy of the Spanish people. The literary topics include reading about Spanish heroism, medieval Spanish beliefs, Spanish imperialism, Spanish-Indian relations, Great Spanish explorers, etc. The selected themes will determine the reading that are selected for in depth discussion and study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

Literature Courses

SPAN 340 - Topics in Spanish Literature

3 Credit(s)

Instruction on selected themes taken from the historical and literary legacy of the Spanish people. The literary topics include reading about Spanish heroism, medieval Spanish beliefs, Spanish imperialism, Spanish-Indian relations, Great Spanish explorers, etc. The selected themes will determine the reading that are selected for in depth discussion and study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

OR

SPAN 341 - Topics in Latin American Literature

3 Credit(s)

Instruction on selected themes taken from the historical and literacy of the Latin American people. The literary topics include reading on: the Spanish conquest, the Indian, independence, social protest, women, religious faith, etc. The selected themes will determine the readings that are selected for in depth discussion and study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

Language Elective Courses (6 Hours)

SPAN 310 - Southwest Spanish

3 Credit(s)

A study of characteristics of oral Southwest Spanish. The course will explore the historical origins of Spanish in the Southwest including the conquest and colonization by the Spanish, the signing of the Treaty of Guadalupe Hildago, and the settlement of the San Luis Valley. Issues related to bilingualism, Spanish/English contact, and attitudes toward and effects of the maintenance and loss of Spanish will be examined.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 315 - Spanish for Business

3 Credit(s)

Instruction in the specific vocabulary, grammatical structures, and cultural insights needed to effectively deal with the common everyday business interactions between the Spanish-speaking client and English-speaking business community.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 316 - Spanish for Health Professions

3 Credit(s)

Instruction in the special vocabulary, grammatical structures and cultural understanding needed to deal effectively with the Spanish speaking patient/health professional interactions. The student will learn to interact in Spanish with a variety of simulated common everyday patient/health personnel situations.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 317 - Spanish for Translation

3 Credit(s)

Instruction in the specific vocabulary, grammatical structures, and cultural insights needed to effectively deal with the non-technical general translations from English/Spanish or Spanish/English. Although the student will learn that there are various approaches used in the translation of texts, this course emphasizes the translation of the underlying message and its meaning based on the cultural context.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

SPAN 395 - Spanish Phonetics--Language History

3 Credit(s)

Introduction to the study of the Spanish sound system including a brief background of the history and development of the Spanish language as well as some discussion of dialectal differences across the globe. Designed for those planning to teach Spanish including pedagogical concepts that can be applied in the classroom to aid students in the improvement of their Spanish pronunciation. Examine English/Spanish contrasts and includes exercises in written transcription, oral productions, and an analysis of spoken Spanish.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 396 - Methods Teaching Foreign Language

3 Credit(s)

A study of effective teaching methods and the development of a contextualized approach to language instruction that is based on meaningful language use, real-world communication, and interaction among learners. Emphasis will be placed on the National Standards for Foreign Language Learning and the American Council on the Teaching of Foreign Languages (ACTFL) proficiency guidelines.

Prerequisite(s):

Admission to the Educator Preparation Program

Literature Elective Courses (6 Hours)

SPAN 400 - Masterpieces of Spanish Literature

3 Credit(s)

This is a senior level course that provides an in-depth study of selected complete works of Spanish literary masterpieces. Five complete literary masterpiece works by Spanish writers will be selected for an in-depth study. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 401 - Masterpieces of Latin American Literature

3 Credit(s)

This is a senior level course that provides an in-depth study of selected complete works of Latin American literary masterpieces. Five complete literary masterpiece works by Latin American writers will be selected for an in-depth study. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 411 - Contemporary Spanish Literature

3 Credit(s)

This is a senior-level course that provides an in-depth study of selected complete works of contemporary Spanish literary works. Five complete literary works by Spanish writers will be selected for an in-depth study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 412 - Contemporary Latin American Literature

3 Credit(s)

This is a senior-level course that provides an in-depth study of selected complete works of contemporary Latin American literary works. Five complete literary works by contemporary Latin American writers will be selected for an in-depth study. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 413 - La Literatura Indigenista

3 Credit(s)

Study of the major themes and characteristics surrounding the social condition and plight of the Indian as portrayed in the major Latin American indigenous novels. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 414 - Spanish American Thought

3 Credit(s)

Study of the major themes, ideas, and perspectives of major Latin American writers. The selected readings include interpretive essays, literary narratives, and philosophical works by such writers as: Sarmiento, Andres Bello, Juan Montalvo, Jose Marti, Octavio Paz, Jose Vasconcelos, Leopoldo Zea, and others. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 415 - Cervantes/El Quijote

3 Credit(s)

A study of the life and important works of Cervantes with special emphasis on the Quijote. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 416 - La Novela/Revolucion Mexicana

3 Credit(s)

Analysis of the most important novelists of the Mexican Revolution and their impact upon the present day political, social, and economic structure of Mexico. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 419 - Golden Age Drama

3 Credit(s)

A study of the themes, forms and development of Spanish National Theatre of the 16th and 17th Centuries. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 423 - Modern Hispanic Short Story

3 Credit(s)

This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 425 - Hispanic Poetry

3 Credit(s)

A course designed to analyze the techniques, styles, etc. of selected Hispanic poetic collections. Instructor permission may be sought in lieu of prerequisites.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 479 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

Language/Literature Electives (3 additional hours from above)

Note

Successful completion of the Senior Comprehensive Examination (SCE).

Successful completion of the Oral Proficiency Interview (OPI) in Spanish at ACTFL level advanced high.

NOTE: Completion of the SCE and OPI are instruments used by ASU Language Faculty to assess the effectiveness of their program in four areas:

Oral performance in speaking, understanding, description, and oral narration;

- Writing (Grammar);
- Hispanic culture and literature appreciation;
- Teaching methodology.

Bachelor of Arts in Spanish, Secondary Teacher Licensure

Go to: Bachelor of Arts, Secondary Education Licensure

Go to: Languages, Literature, and Media Communication

1. Required Core

SPAN 313 - Conversation and Composition

3 Credit(s)

This course provides instruction in the development of advanced level conversation and writing skills (spelling, paragraphs, summaries, letters, reports, etc.) in Spanish. The student will acquire the useful everyday skills needed to communicate in Spanish correctly.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 350 - Advanced Grammar and Composition

3 Credit(s)

Intensive course in grammar and in the writing composition of the language. Advanced grammar principles, translation from English to Spanish and other language refinements.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 395 - Spanish Phonetics--Language History

3 Credit(s)

Introduction to the study of the Spanish sound system including a brief background of the history and development of the Spanish language as well as some discussion of dialectal differences across the globe. Designed for those planning to teach Spanish including pedagogical concepts that can be applied in the classroom to aid students in the improvement of their Spanish pronunciation. Examine English/Spanish contrasts and includes exercises in written transcription, oral productions, and an analysis of spoken Spanish.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 396 - Methods Teaching Foreign Language

3 Credit(s)

A study of effective teaching methods and the development of a contextualized approach to language instruction that is based on meaningful language use, real-world communication, and interaction among learners. Emphasis will be placed on the National Standards for Foreign Language Learning and the American Council on the Teaching of Foreign Languages (ACTFL) proficiency guidelines.

Prerequisite(s):

Admission to the Educator Preparation Program

A) Civilization and Culture Courses

SPAN 325 - Spanish Civilization and Culture

3 Credit(s)

Instruction on selected themes taken from the historical legacy and cultural institutions of the Spanish people. The cultural topics include reading on: the Roman legacy, the church, the Moors, the great writers of the Golden Age, the great Spanish monarchs, Franco, etc. The selected themes will determine the supplemental readings that are selected in depth discussion and study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

OR

SPAN 326 - Latin American Civilization and Culture

3 Credit(s)

Instruction on selected themes taken from the historical and literary legacy of the Spanish people. The literary topics include reading about Spanish heroism, medieval Spanish beliefs, Spanish imperialism, Spanish-Indian relations, Great Spanish explorers, etc. The selected themes will determine the reading that are selected for in depth discussion and study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

B) Literature Courses

SPAN 340 - Topics in Spanish Literature

3 Credit(s)

Instruction on selected themes taken from the historical and literary legacy of the Spanish people. The literary topics include reading about Spanish heroism, medieval Spanish beliefs, Spanish imperialism, Spanish-Indian relations, Great Spanish explorers, etc. The selected themes will determine the reading that are selected for in depth discussion and study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

OR

SPAN 341 - Topics in Latin American Literature

3 Credit(s)

Instruction on selected themes taken from the historical and literacy of the Latin American people. The literary topics include reading on: the Spanish conquest, the Indian, independence, social protest, women, religious faith, etc. The selected themes will determine the readings that are selected for in depth discussion and study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

C) Language Elective Courses (6 Hours)

SPAN 310 - Southwest Spanish

3 Credit(s)

A study of characteristics of oral Southwest Spanish. The course will explore the historical origins of Spanish in the Southwest including the conquest and colonization by the Spanish, the signing of the Treaty of Guadalupe Hildago, and the settlement of the San Luis Valley. Issues related to bilingualism, Spanish/English contact, and attitudes toward and effects of the maintenance and loss of Spanish will be examined.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 315 - Spanish for Business

3 Credit(s)

Instruction in the specific vocabulary, grammatical structures, and cultural insights needed to effectively deal with the common everyday business interactions between the Spanish-speaking client and English-speaking business community.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 316 - Spanish for Health Professions

3 Credit(s)

Instruction in the special vocabulary, grammatical structures and cultural understanding needed to deal effectively with the Spanish speaking patient/health professional interactions. The student will learn to interact in Spanish with a variety of simulated common everyday patient/health personnel situations.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 317 - Spanish for Translation

3 Credit(s)

Instruction in the specific vocabulary, grammatical structures, and cultural insights needed to effectively deal with the non-technical general translations from English/Spanish or Spanish/English. Although the student will learn that there are various approaches used in the translation of texts, this course emphasizes the translation of the underlying message and its meaning based on the cultural context.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

D) Literature Elective Courses (6 Hours)

SPAN 400 - Masterpieces of Spanish Literature

3 Credit(s)

This is a senior level course that provides an in-depth study of selected complete works of Spanish literary masterpieces. Five complete literary masterpiece works by Spanish writers will be selected for an in-depth study. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 401 - Masterpieces of Latin American Literature

3 Credit(s)

This is a senior level course that provides an in-depth study of selected complete works of Latin American literary

masterpieces. Five complete literary masterpiece works by Latin American writers will be selected for an in-depth study. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 411 - Contemporary Spanish Literature

3 Credit(s)

This is a senior-level course that provides an in-depth study of selected complete works of contemporary Spanish literary works. Five complete literary works by Spanish writers will be selected for an in-depth study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 412 - Contemporary Latin American Literature

3 Credit(s)

This is a senior-level course that provides an in-depth study of selected complete works of contemporary Latin American literary works. Five complete literary works by contemporary Latin American writers will be selected for an in-depth study. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 413 - La Literatura Indigenista

3 Credit(s)

Study of the major themes and characteristics surrounding the social condition and plight of the Indian as portrayed in the major Latin American indigenous novels. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 414 - Spanish American Thought

3 Credit(s)

Study of the major themes, ideas, and perspectives of major Latin American writers. The selected readings include interpretive essays, literary narratives, and philosophical works by such writers as: Samiento, Andres Bello, Juan Montalvo, Jose Marti, Octavio Paz, Jose Vasconcelos, Leopold Zea, and others. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 415 - Cervantes/El Quijote

3 Credit(s)

A study of the life and important works of Cervantes with special emphasis on the Quijote. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 416 - La Novela/Revolucion Mexicana

3 Credit(s)

Analysis of the most important novelists of the Mexican Revolution and their impact upon the present day political, social, and economic structure of Mexico. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 419 - Golden Age Drama

3 Credit(s)

A study of the themes, forms and development of Spanish National Theatre of the 16th and 17th Centuries. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 423 - Modern Hispanic Short Story

3 Credit(s)

This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 425 - Hispanic Poetry

3 Credit(s)

A course designed to analyze the techniques, styles, etc. of selected Hispanic poetic collections. Instructor permission may be sought in lieu of prerequisites.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 479 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

E. An additional 3 Credits from B, C, or D

Note

Successful Completion of this Degree requires:

- Successful completion of the Senior Comprehensive Examination (SCE).
- Successful completion of the Oral Proficiency Interview (OPI) in Spanish at ACTFL level advanced high.

Completion of the SCE and OPI are instruments used by ASU Language Faculty to assess the effectiveness of their program in four areas:

1. Oral performance in speaking, understanding, description, and oral narration;
2. Writing (Grammar);
3. Hispanic culture and literature appreciation;
4. Teaching methodology.

Plus Additional Secondary Education Licensure Requirements from the School of Education

Bachelor of Arts, Secondary Education Licensure

Minor in Creative Writing

Go to: Languages, Literature, and Media Communication

Degree Requirements

All students are required to take:

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T
AND

ENG 102 Minimum Grade: C- OR T

ENG 227 - Introduction to Creative Writing

3 Credit(s)

Students write and read poetry, fiction, creative nonfiction, and drama, develop aesthetic standards, and evaluate their writing and that of their classmates. Course emphasizes the writing process, including strategies for invention and revision, and presents ideas for teaching creative writing.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

In Addition, Three Courses from the Following Must Be Selected

ENG 326 - Creative Writing Poetry Workshop I

3 Credit(s)

This course will teach students to develop their craft and creativity in the genre of poetry. Students submit original poems weekly, read selected works of contemporary, published poetry, and critique their own work and that of their classmates. Students practice revision and submit revised work in a final portfolio of at least 10 pages.

Prerequisite(s):

ENG 227 Minimum Grade: C- OR T

AND

ENG 210 Minimum Grade: C- OR T

OR

ENG 203 Minimum Grade: C- OR T

ENG 327 - Fiction Workshop I

3 Credit(s)

This course will teach students to develop creativity in the genre of prose fiction (short story). Students will submit their original writing, read works of published fiction, and critique their own work and the work of their classmates.

Prerequisite(s):

ENG 227 Minimum Grade: C- OR T

ENG 328 - Creative Nonfiction I

3 Credit(s)

This course covers techniques in nonfiction writing encompassing a variety of styles, forms, and topics, encouraging exploration of the genre's innumerable possibilities while developing the student's personal and critical theories of writing.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

AND

ENG 227 Minimum Grade: C- OR T

ENG 426 - Poetry Workshop II

3 Credit(s)

This course will teach students to further develop their craft and creativity in the genre of poetry. Students will submit original poems weekly, read selected works of contemporary published poetry, and critique their own work and the work of their classmates. They will practice revision and submit revised work in a portfolio of at least 15 pages.

Prerequisite(s):

ENG 326 Minimum Grade: C- OR T

ENG 427 - Fiction Workshop II

3 Credit(s)

This course will teach students to further develop their craft and creativity in the genre of prose fiction (short story). Students will submit their original writing, read works of published fiction, and critique their own work and the work of their classmates.

Prerequisite(s):

ENG 327 Minimum Grade: C- or T

ENG 428 - Creative Nonfiction II

3 Credit(s)

This course covers advanced techniques in nonfiction writing begun in ENG 328 as the student assembles a portfolio of work suitable for application to graduate programs.

Prerequisite(s):

ENG 328 Minimum Grade: C- OR T

ENG 497 - Capstone Writing Workshop

3 Credit(s)

This course is designed as a capstone for all Creative Writing majors. The content of the course will focus on organization, editing, and honing of a final writing project.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

AND

ENG 214 Minimum Grade: C- OR T

OR

THTR 213 Minimum Grade: C- OR T

AND

ENG 227 Minimum Grade: C- OR T

AND

ENG 326 Minimum Grade: C- OR T

AND

ENG 327 Minimum Grade: C- OR T

AND

ENG 328 Minimum Grade: C- OR T

In Addition, One Course from the Following Must Be Selected

ENG 458 - Reading Poetry

3 Credit(s)

A study of poetry from ancient to contemporary with an emphasis on form and technique.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

ENG 460 - Reading Short Prose

3 Credit(s)

A study of fiction and nonfiction short prose forms with an emphasis on authors writing in the English and American traditions, but including works in translation, and with special attention to form and technique.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

Minor in English

Go to: Languages, Literature, and Media Communication

Degree Requirements

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T
AND

ENG 102 Minimum Grade: C- OR T

Completion of 18 total credits in English

Note:

Nine of the 18 hours must be 300 or 400-level. These nine upper-division courses must be taken at Adams State

Minor in English/Communication

Go to: Languages, Literature, and Media Communication

Degree Requirements

Completion of the core requirement (3 hours)

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

Completion of 4 Elective Courses

COMM 165 - Digital Filmmaking

3 Credit(s)

Course covers the aesthetics and practice of narrative, documentary, and experimental media production at an introductory level using a variety of digital filmmaking tools including digital photography, digital video, audio recorders, and editing software. Students will complete video products they can post to YouTube and similar sites.

OR

COMM 365 - Digital Filmmaking

3 Credit(s)

This course covers the aesthetics and practice of narrative, documentary, and experimental media production using a variety of digital filmmaking tools including digital photography, digital video, audio recorders, and editing software. Students will complete video products they can post to YouTube and similar sites.

Prerequisite(s):

COMM 230 Minimum Grade: C- OR T

COMM 190 - Radio Practicum

1 to 3 Credit(s)

Students earn one credit hour for every three hours of work weekly on KASF-FM or its web site. See station manager for details.

COMM 195 - Video Practicum

1 to 3 Credit(s)

Students earn one credit per three videos (or equivalent work) that they produce for the student-run Grizzly Video Productions (YouTube channel and Campus Cable Channel 5). Please see the Grizzly Video Productions faculty adviser or the student GVP General Manager for further details.

COMM 197 - Newspaper Practicum

1 to 3 Credit(s)

Students earn one credit per five stories (of 500 words apiece, or pre-approved substitutions) that they write for the Paw Print. Students should write on a variety of topics. Also required is the attendance of three newspaper staff meetings per credit registered. Please see the newspaper faculty advisor or the student editor for further details.

COMM 275 - News Writing and Criticism

3 Credit(s)

Inverted pyramid print writing and basic broadcast writing are covered in this course. Additionally, students critique, discuss, and analyze current print and broadcasting media conventions, ethics, and procedures.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

COMM 285 - Digital Media Production

3 Credit(s)

Teaches skills needed to produce effective digital media in print, audio, and video formats. Students are encouraged to take this course concurrently with newspaper, radio, and/or video practicum.

COMM 327 - Social Media

3 Credit(s)

Surveys the history of the early Internet and the transition to Web 2.0. Students will apply this knowledge by designing, creating, and developing social media presence for non-profits, local municipalities, etc., and training the recipients on how to maintain their social media presence

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

COMM 340 - Citizen Journalism and Freelance Writing

3 Credit(s)

This course focuses on the writing skills and theory behind being a freelance or citizen journalist, including feature writing and literary journalism, blogging, and video.

Prerequisite(s):

COMM 293 Minimum Grade: C- OR T

COMM 350 - Media Theory and Criticism

3 Credit(s)

Students will explore various theories that explain the nature of mass communication, the impact that media have on society, and the trends in media consumption. Particular emphasis will be placed on propaganda, violence in media, information processing, media monopolies, and critical media consumption. Students will be expected to track current media and debate contemporary media controversies in class.

Prerequisite(s):

COMM 255 Minimum Grade: C- OR T

COMM 360 - Media Management

3 Credit(s)

Students learn how various media organizations are managed and operated, with a specific focus on radio and television. Various management structures are also explored.

Prerequisite(s):

COMM 293 Minimum Grade: C- OR T

COMM 367 - Short Film/Movie Trailer Production

3 Credit(s)

This course is an intensive production workshop on the sort film and the structure of the commercial movie trailer. Students work in small groups to create an original narrative short film and work individually to create a movie trailer from existing material. Students will share their works in progress with the class and screen their final work through ASU media outlets such as the Grizzly Video YouTube and GRZ-TV campus cable channel 5.

Prerequisite(s):

COMM 165 Minimum Grade: C- OR T
AND

COMM 285 Minimum Grade: C- OR T

COMM 368 - Documentary Film Production

3 Credit(s)

Production course introduces students to the documentary, a form of non-fiction filmmaking. Students will create short documentaries in visual media, utilizing narration, video, still photos, and other elements to tell a story for general audiences.

Prerequisite(s):

COMM 165 Minimum Grade: C- OR T
AND

COMM 285 Minimum Grade: C- OR T

COMM 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student interests in the field.

COMM 420 - Rhetoric of Popular Culture

3 Credit(s)

This course takes seriously the idea human discourse is inherently persuasive. Further, it takes seriously the idea that popular culture is still human culture, and therefore worthy of analysis to understand how it influences human relationships and political struggle. Students will examine the messages and persuasive discourse found in everyday "texts" in film, television, the Internet, music, technology, celebrity, fashion, and other modes of cultural consumption.

COMM 430 - Diversity in Media

3 Credit(s)

Students will analyze how US media represents traditionally marginalized people in the United States. The course will be primarily discussion based, with students and instructor working together to generate ideas and critique dominant ideologies.

Prerequisite(s):

COMM 350 Minimum Grade: C- OR T

COMM 457 - First Amendment and Copyright

3 Credit(s)

This course explores the First Amendment of the U.S. Constitution and current U.S. copyright laws, and how they

apply to and affect both media practitioners and U.S. citizens.

Prerequisite(s):

COMM 255 Minimum Grade: C- OR T
AND

COMM 275 Minimum Grade: C- OR T

COMM 496 - Communication Internship

1 to 3 Credit(s)

Advanced communication students will work in a pre-employment capacity in the field of communications/journalism (broadcasting, video, print, satellite, or computing), applying learned skills in a working environment.

THTR 242 - Voice for Performance

3 Credit(s)

Study of the physical nature of voice production and the sound and mechanisms of speech, including articulation, register, and range. Individual analysis and performance.

THTR 250 - Cinema

3 Credit(s)

An introduction to American cinema. This course will cover such topics as the history of cinema, film analysis, cinematography, editing techniques, film genres, screen writing, and the motion picture industry's responses to cultural issues.

Minor in Spanish

Go to: Languages, Literature, and Media Communication

Minor in Spanish (7 courses) available in consultation with any Spanish faculty member.

Psychology

Return to: School of Humanities and Social Sciences (SHSS)

The Bachelor of Arts degree with a major in psychology functions as a pre-professional program for graduate study or preparation for a career in mental health, personnel work, education, business, and other occupations requiring a person to understand and interact with human behavior. A minor in psychology is also available.

Psychology Faculty

Department Chair

- Dr. Colleen M. Schaffner

Professors

- Jeffrey Elison, Ph.D.
- Colleen M. Schaffner, Ph.D.
- Rena Kirkland, Ph.D.

Associate Professors

- Gina Mitchell, Ph.D. (NTT)

Assistant Professors

- Michael Liebhaber, Ph.D. (NTT)

Unless specified otherwise, the rank of associate professor implies tenured status. "NTT" indicates "non-tenure track."

Course List

All Psychology Courses

Bachelor of Arts in Psychology

Bachelor of Arts in Psychology Required Courses

At Least 12 Credits Must Be Completed at Adams State:

PSYC 204 - Child Development

3 Credit(s)

The goal of this course is to examine the interaction of heredity and environment on human development from conception through pre-adolescence. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Some topics include the birth process, early cognitive and language development, gender socialization, the impact of parenting styles, and moral reasoning.

Prerequisite(s):

PSYC 101 Minimum Grade: C or T

PSYC 205 - Adolescent and Adult Development

3 Credit(s)

This course continues the study of life-span development from adolescence through old age and death. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Topics include identity formation, sexual orientation, marriage, models of aging, changes in cognition, social developments, and coping with old age.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 211 - Introduction to Statistics Lecture/Lab

4 Credit(s)

In this course, students will develop a working appreciation of statistical concepts and applications as employed in the behavioral sciences. The course presents descriptive and inferential statistics and their applications. The laboratory component of this course gives students an opportunity to develop skills in using statistical software.

Prerequisite(s):

PSYC 101 Minimum Grade: C- or T

AND

MATH 97 Minimum Grade: S-A or S-B or S-C or T

OR

MATH 99 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 121 Minimum Grade: C- or T

OR

MATH 140 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

PSYC 230 - Psychology of Mental Health

3 Credit(s)

The purpose of this course is to provide students with the historical and social background necessary to understand mental health issues. Students will examine the psychodynamic, behavioral, and cognitive approaches related to the development and treatment of mental disorders and their classifications. Topics will include schizophrenia, depression, bipolar, and personality disorders.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 245 - Brain and Behavior

3 Credit(s)

This course provides students with a basic overview of the biological processes underlying human behavior. This course begins by presenting fundamental nervous system structure and processes and concludes by examining the role of biology in complex behaviors. Clinical case studies are used to illustrate psychological and neurological disorders. Sample topics include evolution and genetics, neural communication, major brain structures and their functions, human brain damage, sleep and dreaming, drug addiction, memory and amnesia, and stress and illness.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 265 - Personalities in Perspective

3 Credit(s)

This course provides an introduction to the psychodynamic, trait, behavioral, biological, cognitive and humanistic approaches to personality. Specific theories and current research within each approach are reviewed. The course covers such theorists as Freud, Jung, Erikson, Skinner, Bandura, Cattell, Allport, and May.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 330 - Professional Seminar

1 Credit(s)

This course provides psychology majors with an overview of careers and opportunities in the field of psychology. Educational requirements, career opportunities, and professional and ethical issues are discussed.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

OR

PSYC 205 Minimum Grade: C- OR T

PSYC 355 - Research Methods in Psychology

4 Credit(s)

This course focuses on the procedures and potential problems associated with research in the behavioral sciences. Students learn how to develop research questions, choose an appropriate research design, collect and analyze data using statistical software, interpret results, and write a report using APA style. The laboratory component provides supervised hands-on experience in project development.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

LS 225 Minimum Grade: C- OR T

PSYC 414 - Cognitive Psychology

3 Credit(s)

This course presents the scientific study of the basic phenomena, concepts, and processes and neurology involved in perception, attention, memory, and higher cognitive functions. Cognitive theory and research methods are used in interpreting cognitive phenomena.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 468 - History and Systems of Psychology

3 Credit(s)

The goals of this course are to examine the origins of modern psychology and to explore how many of psychology's modern concerns are manifestations of continuing issues that have been part of Western psychology for hundreds of years. Course topics include the development of modern science and experimentalism, Darwinian influences, functionalism, behaviorism, cognitivism, the psychoanalytic tradition, humanism, and psychobiology.

Prerequisite(s):

PSYC 101 Minimum Grade: C- or T
AND

PSYC 204 Minimum Grade: C- or T

AND

PSYC 205 Minimum Grade: C- or T

AND

PSYC 211 Minimum Grade: C- or T

PSYC 496 - Capstone: Internship in Psychology

1 to 15 Credit(s)

Senior psychology majors will gain applied experience in psychology by volunteering for a service organization.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 330 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

OR

PSYC 497 - Capstone Research Thesis I

2 Credit(s)

Students enrolling in the course will develop a research thesis under the guidance of a faculty member of the Psychology Department. Students will complete a written thesis proposal, and prepare and submit an application to conduct research to the Institutional Review Board (IRB). The course involves one hour per week of class contact where aspects of research methods will be reviewed, including developing the research question, hypothesis, choosing appropriate methods, and IRB submission.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 498 - Capstone Research Thesis II**3 Credit(s)**

Students enrolling in the course will conduct a research thesis under the guidance of a faculty member of the Psychology Department. Students will conduct primary empirical research, write a final thesis in APA format, and present an oral defense to the psychology faculty.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

AND

PSYC 497 Minimum Grade: C-

6 Credits of Electives from the following**PSYC 386 - Theory and Practice****3 Credit(s)**

This course presents the historical underpinnings of the major theories and principles of learning, and how they are used in applied settings. Classic learning theories are contrasted with contemporary approaches. Students will learn cognitive behavioral assessment and intervention strategies. Topics include traditional behavior modification, as well as contemporary social learning theory and cognitive-behavioral change strategies.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 410 - Social Psychology**3 Credit(s)**

This course will examine how social processes impact thoughts, feelings, and behavior through the survey of theory and research. Topics will include attraction, aggression, helping, obedience, attitudes, and prejudice.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 416 - Biological Psychology

3 Credit(s)

This course provides a more thorough examination of the biological basis of human behavior. The biological mechanisms of behavior are emphasized as well as the evolution, genetics, and adaptiveness of behavioral processes. The impact on society of recent developments in neuroscience is also examined.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 455 - Evolutionary Psychology

3 Credit(s)

This course provides students with a detailed and thorough examination of the impact of evolution on human behavior and mental processes. An emphasis using animal behavior and evolutionary processes as a model for understanding human behavior will be utilized. Students will also be exposed to a variety of topics including, the importance of

science, the evidence for evolution, selective breeding, genetic and ecological contributions to behavior, the biological constraints on learning, the development of higher mental processes, complex social behavior, and sex differences in mating behavior and cognition.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 458 - Sensation and Perception

3 Credit(s)

This course examines the physiological and behavioral components of basic sensory processes and the role they play in perception. These sensory systems include vision, audition, the somatic senses (i.e., touch, temperature, and pain) and the chemical senses (i.e., taste and smell). The development and clinical aspects of these sensory systems are also studied. Sample topics include receptors and neural processing, color perception, depth and size perception, perception of movement, speech perception, and the perception of pitch.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

Plus 6 Credits Of 300 to 400 Level Psychology Electives

All Psychology Majors

Must participate in an exit interview with a committee of psychology faculty (arranged with advisor).

Bachelor of Arts in Psychology, Clinical Psychology Emphasis

Go to: Psychology

Bachelor of Arts in Psychology Required Courses

At Least 12 Credits Must Be Completed at Adams State:

PSYC 204 - Child Development

3 Credit(s)

The goal of this course is to examine the interaction of heredity and environment on human development from conception through pre-adolescence. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Some topics include the birth process, early cognitive and language development, gender socialization, the impact of parenting styles, and moral reasoning.

Prerequisite(s):

PSYC 101 Minimum Grade: C or T

PSYC 205 - Adolescent and Adult Development

3 Credit(s)

This course continues the study of life-span development from adolescence through old age and death. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Topics include identity formation, sexual orientation, marriage, models of aging, changes in cognition, social developments, and coping with old age.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 211 - Introduction to Statistics Lecture/Lab

4 Credit(s)

In this course, students will develop a working appreciation of statistical concepts and applications as employed in the behavioral sciences. The course presents descriptive and inferential statistics and their applications. The laboratory component of this course gives students an opportunity to develop skills in using statistical software.

Prerequisite(s):

PSYC 101 Minimum Grade: C- or T
AND

MATH 97 Minimum Grade: S-A or S-B or S-C or T

OR

MATH 99 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

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MATH 121 Minimum Grade: C- or T

OR

MATH 140 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

PSYC 230 - Psychology of Mental Health

3 Credit(s)

The purpose of this course is to provide students with the historical and social background necessary to understand mental health issues. Students will examine the psychodynamic, behavioral, and cognitive approaches related to the development and treatment of mental disorders and their classifications. Topics will include schizophrenia, depression, bipolar, and personality disorders.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 245 - Brain and Behavior

3 Credit(s)

This course provides students with a basic overview of the biological processes underlying human behavior. This course begins by presenting fundamental nervous system structure and processes and concludes by examining the role of biology in complex behaviors. Clinical case studies are used to illustrate psychological and neurological disorders. Sample topics include evolution and genetics, neural communication, major brain structures and their functions, human

brain damage, sleep and dreaming, drug addiction, memory and amnesia, and stress and illness.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 265 - Personalities in Perspective

3 Credit(s)

This course provides an introduction to the psychodynamic, trait, behavioral, biological, cognitive and humanistic approaches to personality. Specific theories and current research within each approach are reviewed. The course covers such theorists as Freud, Jung, Erikson, Skinner, Bandura, Cattell, Allport, and May.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 330 - Professional Seminar

1 Credit(s)

This course provides psychology majors with an overview of careers and opportunities in the field of psychology. Educational requirements, career opportunities, and professional and ethical issues are discussed.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

OR

PSYC 205 Minimum Grade: C- OR T

PSYC 355 - Research Methods in Psychology

4 Credit(s)

This course focuses on the procedures and potential problems associated with research in the behavioral sciences. Students learn how to develop research questions, choose an appropriate research design, collect and analyze data using statistical software, interpret results, and write a report using APA style. The laboratory component provides supervised hands-on experience in project development.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

LS 225 Minimum Grade: C- OR T

PSYC 414 - Cognitive Psychology

3 Credit(s)

This course presents the scientific study of the basic phenomena, concepts, and processes and neurology involved in perception, attention, memory, and higher cognitive functions. Cognitive theory and research methods are used in interpreting cognitive phenomena.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 468 - History and Systems of Psychology

3 Credit(s)

The goals of this course are to examine the origins of modern psychology and to explore how many of psychology's modern concerns are manifestations of continuing issues that have been part of Western psychology for hundreds of years. Course topics include the development of modern science and experimentalism, Darwinian influences, functionalism, behaviorism, cognitivism, the psychoanalytic tradition, humanism, and psychobiology.

Prerequisite(s):

PSYC 101 Minimum Grade: C- or T
AND

PSYC 204 Minimum Grade: C- or T

AND

PSYC 205 Minimum Grade: C- or T

AND

PSYC 211 Minimum Grade: C- or T

PSYC 496 - Capstone: Internship in Psychology

1 to 15 Credit(s)

Senior psychology majors will gain applied experience in psychology by volunteering for a service organization.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 330 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

OR

PSYC 497 - Capstone Research Thesis I

2 Credit(s)

Students enrolling in the course will develop a research thesis under the guidance of a faculty member of the Psychology Department. Students will complete a written thesis proposal, and prepare and submit an application to conduct research to the Institutional Review Board (IRB). The course involves one hour per week of class contact where aspects of research methods will be reviewed, including developing the research question, hypothesis, choosing appropriate methods, and IRB submission.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 498 - Capstone Research Thesis II

3 Credit(s)

Students enrolling in the course will conduct a research thesis under the guidance of a faculty member of the Psychology Department. Students will conduct primary empirical research, write a final thesis in APA format, and present an oral defense to the psychology faculty.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

AND

PSYC 497 Minimum Grade: C-

6 Credits of Electives from the following

PSYC 386 - Theory and Practice

3 Credit(s)

This course presents the historical underpinnings of the major theories and principles of learning, and how they are used in applied settings. Classic learning theories are contrasted with contemporary approaches. Students will learn cognitive behavioral assessment and intervention strategies. Topics include traditional behavior modification, as well as contemporary social learning theory and cognitive-behavioral change strategies.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 410 - Social Psychology

3 Credit(s)

This course will examine how social processes impact thoughts, feelings, and behavior through the survey of theory and research. Topics will include attraction, aggression, helping, obedience, attitudes, and prejudice.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 416 - Biological Psychology

3 Credit(s)

This course provides a more thorough examination of the biological basis of human behavior. The biological mechanisms of behavior are emphasized as well as the evolution, genetics, and adaptiveness of behavioral processes. The impact on society of recent developments in neuroscience is also examined.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 455 - Evolutionary Psychology

3 Credit(s)

This course provides students with a detailed and thorough examination of the impact of evolution on human behavior and mental processes. An emphasis using animal behavior and evolutionary processes as a model for understanding human behavior will be utilized. Students will also be exposed to a variety of topics including, the importance of science, the evidence for evolution, selective breeding, genetic and ecological contributions to behavior, the biological constraints on learning, the development of higher mental processes, complex social behavior, and sex differences in mating behavior and cognition.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 458 - Sensation and Perception

3 Credit(s)

This course examines the physiological and behavioral components of basic sensory processes and the role they play in perception. These sensory systems include vision, audition, the somatic senses (i.e., touch, temperature, and pain) and the chemical senses (i.e., taste and smell). The development and clinical aspects of these sensory systems are also studied. Sample topics include receptors and neural processing, color perception, depth and size perception, perception of movement, speech perception, and the perception of pitch.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

Plus 6 Credits Of 300 to 400 Level Psychology Electives

Emphasis in Clinical Psychology

Completion of the Following Required Courses

COUN 312 - Introduction to Counseling

3 Credit(s)

This course provides an introduction to the profession of counseling and the importance of interpersonal communication skills and self-awareness across a variety of disciplines. Topics include an introduction to different counseling approaches, such as individual, family, and group counseling.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

OR

PSYC 205 Minimum Grade: C- OR T

PSYC 345 - Psychological Testing and Assessment

3 Credit(s)

This course provides students with an introduction to the methods and issues involved in testing and assessment. Various assessment domains are presented including personality, cognitive ability, and interests/values. Topics covered in this course include the historical foundation of assessment, reliability, validity, and test construction and ethical considerations.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

OR

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

PSYC 386 - Theory and Practice

3 Credit(s)

This course presents the historical underpinnings of the major theories and principles of learning, and how they are used in applied settings. Classic learning theories are contrasted with contemporary approaches. Students will learn cognitive behavioral assessment and intervention strategies. Topics include traditional behavior modification, as well as contemporary social learning theory and cognitive-behavioral change strategies.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

Plus 3 Hours from the Following

PSYC 310 - Child and Adolescent Psychopathology

3 Credit(s)

This course provides an examination of the classification, scientific theories, and research regarding abnormal behavior of children and adolescents. Distinctions between adult and childhood disorders will be explored from a developmental perspective. The study of abnormal behavior of children and adolescence (or developmental psychopathology) focuses on nature and development of mental disorders, such as depression, attention-deficit hyperactivity disorder, separation anxiety disorder, the autistic spectrum of disorders, to name just a few. Information regarding the etiology (causes) adult and childhood disorders will be explored.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

PSYC 315 - Multicultural Issues

3 Credit(s)

In this course, students will explore various components of a multicultural society and the impact of social and cultural forces on identity development and formation. The processes of acculturation and assimilation will be discussed. Students will also gain insight into their own cultural experiences in a pluralistic society.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

PSYC 316 - Drugs, Society, and Human Behavior

3 Credit(s)

This course addresses the social, biological, and psychological factors of the major drugs associated with therapeutic and recreational use and abuse. Topics include drug use as a social problem, theories and treatment of addiction, how drugs work, and the detrimental health effects of drug use.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

PSYC 360 - Psychology of Gender

3 Credit(s)

This course will examine gender development from a variety of theoretical approaches, including evolutionary, cognitive, social learning, and cross-cultural. Topics will include how gender influences thinking, communication, interpersonal relationships, education, work, and family.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

Plus 6 Hours from the Following

PSYC 410 - Social Psychology

3 Credit(s)

This course will examine how social processes impact thoughts, feelings, and behavior through the survey of theory and research. Topics will include attraction, aggression, helping, obedience, attitudes, and prejudice.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 455 - Evolutionary Psychology

3 Credit(s)

This course provides students with a detailed and thorough examination of the impact of evolution on human behavior and mental processes. An emphasis using animal behavior and evolutionary processes as a model for understanding human behavior will be utilized. Students will also be exposed to a variety of topics including, the importance of science, the evidence for evolution, selective breeding, genetic and ecological contributions to behavior, the biological constraints on learning, the development of higher mental processes, complex social behavior, and sex differences in mating behavior and cognition.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 458 - Sensation and Perception

3 Credit(s)

This course examines the physiological and behavioral components of basic sensory processes and the role they play in perception. These sensory systems include vision, audition, the somatic senses (i.e., touch, temperature, and pain) and the chemical senses (i.e., taste and smell). The development and clinical aspects of these sensory systems are also studied. Sample topics include receptors and neural processing, color perception, depth and size perception, perception of movement, speech perception, and the perception of pitch.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

Overall Total Required Credits for Psychology Major/ Clinical Emphasis (48 Credit Hours)

All Psychology Majors

Must participate in an exit interview with a committee of psychology faculty (arranged with advisor).

Bachelor of Arts in Sport Psychology

Go to: Psychology

The Bachelor of Arts degree in sport psychology functions as a pre-professional program for graduate study in sport psychology, in sport and exercise physiology, and/or in counseling.

Specific courses required for this degree:

Sport Psychology majors must complete the following core courses

KIN 100 - Foundations of Kinesiology

3 Credit(s)

This course serves as an overview of the historical, philosophical, ethical and sociological foundations of Kinesiology. This course will be delivered with a specific emphasis on exercise science, sport management, sport psychology, and coaching. Students also will study current issues, challenges and trends as they relate to professional careers and the administration of sport, fitness, and physical education. Embedded within this course is an introduction to the key Academic Program Goals of Kinesiology.

BIOL 112 - Human Anatomy

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure of the human body. Typically taken by HPPE students. Topics include gross anatomy, histology, the relationship between structure and function, and anatomical changes associated with disease processes. Course includes three hours of lecture and two hours of laboratory per week.

OR

BIOL 205 - Human Anatomy and Physiology I

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The integumentary, skeletal, muscular, and nervous systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Test - Minimum Score: 3 **OR** MATH 97 Minimum Grade: S or S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T and SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18 **OR** ENG 96 Minimum Grade: S or T

BIOL 206 - Human Anatomy and Physiology II

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The digestive, respiratory, circulatory, urinary, endocrine, and reproductive systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL 205 Minimum Grade: C- or T

OR

BIOL 210 Minimum Grade: C- or T

KIN 309 - Care / Prevention of Athletic Injuries

3 Credit(s)

The course will focus on the care and prevention of athletic injuries, including the evaluation, nature, types, and functions of various rehabilitation programs.

KIN 329 - Exercise Physiology

3 Credit(s)

This course presents an introduction and overview of the physiological bases of physical education, sport, and athletics. The effects of exercise on the various systems will be considered. Practical application of exercise science to physical fitness and athletic performance will be emphasized.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T

OR

BIOL 205 Minimum Grade: C- OR T

Co-requisite(s): KIN-329L

KIN 329L - Exercise Physiology Lab

1 Credit(s)

This exercise physiology lab class is designed to supplement the exercise physiology lecture course. This course will provide students with a hands-on experience in which they can apply concepts learned in the classroom to practice in the human performance laboratory and field of exercise, fitness, and sport.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T

OR

BIOL 205 Minimum Grade: C- OR T

Co-requisite(s): KIN-329

KIN 340 - Kinesiology

3 Credit(s)

This course focuses on the nature of human movement as influenced by those motor factors, anatomical factors, and

mechanical principles that apply at rest and in motion.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

AND

KIN 329 Minimum Grade: C- OR T

AND

KIN 329L Minimum Grade: C- OR T

KIN 341 - Human Motor Development

3 Credit(s)

This course is designed to educate Kinesiology majors in the principles of human motor behavior and its influence on cognitive, affective, and psychomotor development throughout the lifespan. It will introduce students to factors that affect the intellectual, social, emotional, and physical development, growth and maturation of individuals relative to motor acquisition and regression.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

AND

BIOL 206 Minimum Grade: C- OR T

KIN 427 - Coaching Tech Strength / Conditioning

3 Credit(s)

This course is designed to provide information relative to the basic foundation of coaching sports conditioning including muscle physiology, bioenergetics, training methodology, exercise technique, program design, and facility management. Students will be given the opportunity to develop a general strength coaching philosophy and to demonstrate their knowledge relative to proper lifting techniques demonstrate their knowledge relative to proper lifting and training procedures.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T
OR

KIN 422 - Exercise Evaluation and Fitness Management

3 Credit(s)

This course is designed to familiarize students with the current methods used to determine levels of fitness in

apparently healthy individuals, as well as individuals from special populations. Students will learn how to prescribe exercise for these individuals based on their fitness evaluation, basic training principles and other considerations. Students will be given the opportunity to test various individuals within specific testing parameters, and apply course knowledge to practical situations.

Prerequisite(s):

KIN 329L Minimum Grade: C- OR T

KIN 450 - Senior Capstone

3 Credit(s)

This course is designed as a culminating experience for Kinesiology majors. The focus of this High Impact Practice course will be on integrating prior knowledge, competencies, and experiences into practical applications and further professional development. Three main areas will be covered: service-learning, professional development, and personal reflection in relation to the student experience at Adams State.

Prerequisite(s):

Teacher Education Background Check Passed

Sport Psychology

KIN 302 - Sport Psychology

3 Credit(s)

Sport psychology is primarily concerned with the interaction between psychological variables and participation in sport and exercise. This course will review this interaction by addressing variables that affect the individual athlete, influence sport and exercise environments, shape group processes, enhance health and wellbeing, improve performance, and facilitate psychological growth and development in sport participants from diverse populations.

KIN 350 - Methods of Coaching

3 Credit(s)

This course is intended to provide the foundations of coaching for a person who wants to coach at the youth, elementary, high school or college level. Through a series of discussions, readings, and other projects, the potential coach will gain the knowledge and skills required to be an effective coach. This course will address the many roles and duties a coach must accept to provide positive experiences for athletes in sport.

KIN 380 - Diversity, Equity Sport, and Society

3 Credit(s)

This course has a two-fold purpose: first, it is designed to provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask questions and think critically about sport as a part of society. This course will explore issues around diversity, equity and inclusion in sport and society.

KIN 436 - Applied Sport Psychology

3 Credit(s)

This course focuses on the practice of sport psychology. The course will review the significance of relevant psychological concepts, and develop students' knowledge and skills relevant for applied sport psychology. Students will explore and experience the process of learning, developing and practicing techniques used to improve the athletic performance of individuals, groups, and teams.

Prerequisite(s):

KIN 302

Psychology

PSYC 205 - Adolescent and Adult Development

3 Credit(s)

This course continues the study of life-span development from adolescence through old age and death. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Topics include identity formation, sexual orientation, marriage, models of aging, changes in cognition, social developments, and coping with old age.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 211 - Introduction to Statistics Lecture/Lab

4 Credit(s)

In this course, students will develop a working appreciation of statistical concepts and applications as employed in the behavioral sciences. The course presents descriptive and inferential statistics and their applications. The laboratory component of this course gives students an opportunity to develop skills in using statistical software.

Prerequisite(s):

PSYC 101 Minimum Grade: C- or T

AND

MATH 97 Minimum Grade: S-A or S-B or S-C or T

OR

MATH 99 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 121 Minimum Grade: C- or T

OR

MATH 140 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

LS 225 - Research Skills for Behavioral Sciences

1 Credit(s)

In this one-credit course, Sociology and Psychology majors will learn how to and use a variety of print and electronic resources specific to their discipline. Understanding the process of writing a literature review is the emphasis of the course.

PSYC 245 - Brain and Behavior

3 Credit(s)

This course provides students with a basic overview of the biological processes underlying human behavior. This course begins by presenting fundamental nervous system structure and processes and concludes by examining the role of biology in complex behaviors. Clinical case studies are used to illustrate psychological and neurological disorders. Sample topics include evolution and genetics, neural communication, major brain structures and their functions, human brain damage, sleep and dreaming, drug addiction, memory and amnesia, and stress and illness.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 265 - Personalities in Perspective

3 Credit(s)

This course provides an introduction to the psychodynamic, trait, behavioral, biological, cognitive and humanistic approaches to personality. Specific theories and current research within each approach are reviewed. The course covers such theorists as Freud, Jung, Erikson, Skinner, Bandura, Cattell, Allport, and May.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

OR

PSYC 410 - Social Psychology

3 Credit(s)

This course will examine how social processes impact thoughts, feelings, and behavior through the survey of theory and research. Topics will include attraction, aggression, helping, obedience, attitudes, and prejudice.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

COUN 312 - Introduction to Counseling

3 Credit(s)

This course provides an introduction to the profession of counseling and the importance of interpersonal communication skills and self-awareness across a variety of disciplines. Topics include an introduction to different counseling approaches, such as individual, family, and group counseling.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

OR

PSYC 205 Minimum Grade: C- OR T

PSYC 355 - Research Methods in Psychology

4 Credit(s)

This course focuses on the procedures and potential problems associated with research in the behavioral sciences. Students learn how to develop research questions, choose an appropriate research design, collect and analyze data using statistical software, interpret results, and write a report using APA style. The laboratory component provides supervised hands-on experience in project development.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

LS 225 Minimum Grade: C- OR T

PSYC 386 - Theory and Practice

3 Credit(s)

This course presents the historical underpinnings of the major theories and principles of learning, and how they are used in applied settings. Classic learning theories are contrasted with contemporary approaches. Students will learn cognitive behavioral assessment and intervention strategies. Topics include traditional behavior modification, as well as contemporary social learning theory and cognitive-behavioral change strategies.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

Completion of Six Hours of the Following Electives

PSYC 315 - Multicultural Issues

3 Credit(s)

In this course, students will explore various components of a multicultural society and the impact of social and cultural forces on identity development and formation. The processes of acculturation and assimilation will be discussed. Students will also gain insight into their own cultural experiences in a pluralistic society.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

PSYC 316 - Drugs, Society, and Human Behavior

3 Credit(s)

This course addresses the social, biological, and psychological factors of the major drugs associated with therapeutic and recreational use and abuse. Topics include drug use as a social problem, theories and treatment of addiction, how drugs work, and the detrimental health effects of drug use.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

PSYC 360 - Psychology of Gender

3 Credit(s)

This course will examine gender development from a variety of theoretical approaches, including evolutionary, cognitive, social learning, and cross-cultural. Topics will include how gender influences thinking, communication, interpersonal relationships, education, work, and family.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

PSYC 375 - Human Sexuality

3 Credit(s)

In this multidisciplinary course, students will be introduced to the physiological, medical, sociological, psychological, legal, ethical, moral, and educational facets of human sexuality. Topics in this course include male and female sexual anatomy and sexual response, contraception and disease control, sexually transmitted diseases, and sexual orientation.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 380 - Health Psychology

3 Credit(s)

Health Psychology examines the psychosocial factors relevant to health. The course emphasis will be on the contribution of psychological theory to the encouragement of health and wellness and prevention of physical illness. Topics include stress management, health and behavior, chronic and life threatening illness, treatment, and evaluation of health-related research. PSYC 211 recommended.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

PSYC 410 - Social Psychology

3 Credit(s)

This course will examine how social processes impact thoughts, feelings, and behavior through the survey of theory and research. Topics will include attraction, aggression, helping, obedience, attitudes, and prejudice.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

OR

PSYC 265 - Personalities in Perspective

3 Credit(s)

This course provides an introduction to the psychodynamic, trait, behavioral, biological, cognitive and humanistic

approaches to personality. Specific theories and current research within each approach are reviewed. The course covers such theorists as Freud, Jung, Erikson, Skinner, Bandura, Cattell, Allport, and May.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 458 - Sensation and Perception

3 Credit(s)

This course examines the physiological and behavioral components of basic sensory processes and the role they play in perception. These sensory systems include vision, audition, the somatic senses (i.e., touch, temperature, and pain) and the chemical senses (i.e., taste and smell). The development and clinical aspects of these sensory systems are also studied. Sample topics include receptors and neural processing, color perception, depth and size perception, perception of movement, speech perception, and the perception of pitch.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

All Psychology Majors

Must participate in an exit interview with a committee of psychology faculty (arranged with advisor).

Minor in Psychology

Go to: Psychology

A minor in psychology is a great complement for many majors, especially in fields like nursing and business where today's employers are putting more and more emphasis on interpersonal skills. The minor will provide a broad overview of several important areas in psychology, all of which will help students appreciate why people behave in certain ways.

9 Credits from the Following

PSYC 204 - Child Development

3 Credit(s)

The goal of this course is to examine the interaction of heredity and environment on human development from conception through pre-adolescence. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Some topics include the birth process, early cognitive and language development, gender socialization, the impact of parenting styles, and moral reasoning.

Prerequisite(s):

PSYC 101 Minimum Grade: C or T

PSYC 205 - Adolescent and Adult Development

3 Credit(s)

This course continues the study of life-span development from adolescence through old age and death. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Topics include identity formation, sexual orientation, marriage, models of aging, changes in cognition, social developments, and coping with old age.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 230 - Psychology of Mental Health

3 Credit(s)

The purpose of this course is to provide students with the historical and social background necessary to understand mental health issues. Students will examine the psychodynamic, behavioral, and cognitive approaches related to the development and treatment of mental disorders and their classifications. Topics will include schizophrenia, depression, bipolar, and personality disorders.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 245 - Brain and Behavior

3 Credit(s)

This course provides students with a basic overview of the biological processes underlying human behavior. This course begins by presenting fundamental nervous system structure and processes and concludes by examining the role of biology in complex behaviors. Clinical case studies are used to illustrate psychological and neurological disorders. Sample topics include evolution and genetics, neural communication, major brain structures and their functions, human brain damage, sleep and dreaming, drug addiction, memory and amnesia, and stress and illness.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 265 - Personalities in Perspective

3 Credit(s)

This course provides an introduction to the psychodynamic, trait, behavioral, biological, cognitive and humanistic

approaches to personality. Specific theories and current research within each approach are reviewed. The course covers such theorists as Freud, Jung, Erikson, Skinner, Bandura, Cattell, Allport, and May.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

Plus 9 Credits from any 300 or 400 Level Course

Minor in Sport Psychology

Go to: Psychology

A Minor in Sport Psychology Consists of the Following

KIN 302 - Sport Psychology

3 Credit(s)

Sport psychology is primarily concerned with the interaction between psychological variables and participation in sport and exercise. This course will review this interaction by addressing variables that affect the individual athlete, influence sport and exercise environments, shape group processes, enhance health and wellbeing, improve performance, and facilitate psychological growth and development in sport participants from diverse populations.

PSYC 205 - Adolescent and Adult Development

3 Credit(s)

This course continues the study of life-span development from adolescence through old age and death. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Topics include identity formation, sexual orientation, marriage, models of aging, changes in cognition, social developments, and coping with old age.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

KIN 341 - Human Motor Development

3 Credit(s)

This course is designed to educate Kinesiology majors in the principles of human motor behavior and its influence on cognitive, affective, and psychomotor development throughout the lifespan. It will introduce students to factors that affect the intellectual, social, emotional, and physical development, growth and maturation of individuals relative to motor acquisition and regression.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T

OR

BIOL 205 Minimum Grade: C- OR T

AND

BIOL 206 Minimum Grade: C- OR T

PSYC 386 - Theory and Practice

3 Credit(s)

This course presents the historical underpinnings of the major theories and principles of learning, and how they are used in applied settings. Classic learning theories are contrasted with contemporary approaches. Students will learn cognitive behavioral assessment and intervention strategies. Topics include traditional behavior modification, as well as contemporary social learning theory and cognitive-behavioral change strategies.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

KIN 380 - Diversity, Equity Sport, and Society

3 Credit(s)

This course has a two-fold purpose: first, it is designed to provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask questions and think critically about sport as a part of society. This course will explore issues around diversity, equity and inclusion in sport and society.

PSYC 211 - Introduction to Statistics Lecture/Lab

4 Credit(s)

In this course, students will develop a working appreciation of statistical concepts and applications as employed in the behavioral sciences. The course presents descriptive and inferential statistics and their applications. The laboratory component of this course gives students an opportunity to develop skills in using statistical software.

Prerequisite(s):

PSYC 101 Minimum Grade: C- or T

AND

MATH 97 Minimum Grade: S-A or S-B or S-C or T

OR

MATH 99 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 121 Minimum Grade: C- or T

OR

MATH 140 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Plus One of the Following

PSYC 360 - Psychology of Gender

3 Credit(s)

This course will examine gender development from a variety of theoretical approaches, including evolutionary, cognitive, social learning, and cross-cultural. Topics will include how gender influences thinking, communication, interpersonal relationships, education, work, and family.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

PSYC 375 - Human Sexuality

3 Credit(s)

In this multidisciplinary course, students will be introduced to the physiological, medical, sociological, psychological, legal, ethical, moral, and educational facets of human sexuality. Topics in this course include male and female sexual anatomy and sexual response, contraception and disease control, sexually transmitted diseases, and sexual orientation.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 265 - Personalities in Perspective

3 Credit(s)

This course provides an introduction to the psychodynamic, trait, behavioral, biological, cognitive and humanistic approaches to personality. Specific theories and current research within each approach are reviewed. The course covers such theorists as Freud, Jung, Erikson, Skinner, Bandura, Cattell, Allport, and May.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

Sociology

Return to: School of Humanities and Social Sciences (SHSS)

The Department of Sociology blends the academic with the practical. Students are instructed in the major sociological theories underlying social life and society and are provided opportunities to apply this knowledge hands-on in the community. The Sociology Department is committed to preparing students for careers in human services and criminal justice, as well as for admission to graduate programs in sociology, social work, and criminology.

Faculty

Department Chair

- Dr. Heidi Schneider

Professors

- Stephanie Hilwig, Ph.D.

Associate Professors

- Heidi Schneider, Ph.D.
- Michael Stewart, Ph.D.

Assistant Professors

- Billy Ulibarri, Ph.D.

Course List

All Sociology Courses

Bachelor of Arts in Social Sciences, Forensics Emphasis

Go to: Sociology

The program is designed to provide students with a grounding in factors that address social, psychological, cultural, historical and political differences that impact individuals within the criminal justice system. In addition, we draw on forensic science practices with courses in Anthropology (Forensic Anthropology) and Chemistry (Forensic chemistry). The program will equip students for jobs in the criminal justice system and graduate programs in forensic science.

Core Requirements (48 Credits)

Lower Level Courses

PSYC 265 - Personalities in Perspective

3 Credit(s)

This course provides an introduction to the psychodynamic, trait, behavioral, biological, cognitive and humanistic approaches to personality. Specific theories and current research within each approach are reviewed. The course covers such theorists as Freud, Jung, Erikson, Skinner, Bandura, Cattell, Allport, and May.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 230 - Psychology of Mental Health

3 Credit(s)

The purpose of this course is to provide students with the historical and social background necessary to understand mental health issues. Students will examine the psychodynamic, behavioral, and cognitive approaches related to the development and treatment of mental disorders and their classifications. Topics will include schizophrenia, depression, bipolar, and personality disorders.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

SOC 245 - Criminology

3 Credit(s)

Criminology is an introductory course to the study of crime and criminal behavior with special emphasis on theories of crime and delinquency causation, rates and extent of crime, and social control agents (i.e., the police, courts, and "corrections"). Special topics examined may include gangs, white-collar crimes, property crimes, victimless crimes, and organized crime.

Upper Level Courses

ANTH 360 - Forensic Anthropology

3 Credit(s)

This class examines the science and methods of physical anthropology as it relates to the medico-legal work done to identify unknown human remains in atypical circumstances. This introductory course will introduce students to human osteology and dentition in relation to identifying age, sex, stature, and ancestry, as well as bone pathologies and techniques for estimating time of death and post-mortem changes. As part of the course, some visual materials will depict trauma and decomposition of human remains.

PSYC 315 - Multicultural Issues

3 Credit(s)

In this course, students will explore various components of a multicultural society and the impact of social and cultural forces on identity development and formation. The processes of acculturation and assimilation will be discussed. Students will also gain insight into their own cultural experiences in a pluralistic society.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T
AND

PSYC 205 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

PSYC 316 - Drugs, Society, and Human Behavior

3 Credit(s)

This course addresses the social, biological, and psychological factors of the major drugs associated with therapeutic and recreational use and abuse. Topics include drug use as a social problem, theories and treatment of addiction, how drugs work, and the detrimental health effects of drug use.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T
AND

PSYC 245 Minimum Grade: C- OR T

SOC 346 - Criminal Justice

3 Credit(s)

The focus of this course is on the organizational structures and social processes of the American criminal justice system. It will examine criminal law, policing, courts, and corrections.

PSYC 355 - Research Methods in Psychology

4 Credit(s)

This course focuses on the procedures and potential problems associated with research in the behavioral sciences. Students learn how to develop research questions, choose an appropriate research design, collect and analyze data using statistical software, interpret results, and write a report using APA style. The laboratory component provides supervised hands-on experience in project development.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

LS 225 Minimum Grade: C- OR T

SOC 347 - Juvenile Delinquency

3 Credit(s)

This course describes the nature of delinquency, including the trends, characteristics, and causes of juvenile delinquency. In addition, the course will examine theories of delinquency, social influences on delinquency, historical and contemporary overviews of the juvenile justice system, and the juvenile justice process from police involvement to the court system and corrections. Finally, methods of treatment and prevention will be identified.

SOC 348 - Women and Crime

3 Credit(s)

This course will address the role women play as criminals, victims, and professionals in the criminal justice system. This course will examine the important intersection between gender and crime, exploring the nature and extent of women's involvement in the criminal justice system. The course will investigate and discuss the relationship between victimization and offending, and study the unique way women are involved in and impacted by the criminal justice system, with case study examples from real crimes.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 395 - Pre-Professional Seminar

2 Credit(s)

This course provides an introduction to the profession of sociology and the various career options available to graduates. Occupational and graduate school options are explored in detail through library research, presentations, observational and volunteer experiences, and informational interviews. Skills for job interviewing, resume development, and professional correspondence are explored.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 444 - Deviance and Control

3 Credit(s)

The sociology of deviance and control examines the nature of rule-making and rule-breaking in modern societies. The course includes theoretical considerations of the causes and consequences of deviance.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 447 - Correctional Systems

3 Credit(s)

This course will focus on corrections as one of the components of the American criminal justice system and its operation within a democratic form of government. The philosophical and historical underpinnings of punishment and correction will be analyzed and compared (e.g., punishment vs. rehabilitation).

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

AND

SOC 346 Minimum Grade: C- OR T

PSYC 410 - Social Psychology

3 Credit(s)

This course will examine how social processes impact thoughts, feelings, and behavior through the survey of theory and research. Topics will include attraction, aggression, helping, obedience, attitudes, and prejudice.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

SOC 493 - Internship in Sociology

3 Credit(s)

Students in Sociology are placed at an internship site in the community and conduct a mentored capstone case study. Ninety hours of service with the agency are required. The student is supervised by both a Sociology faculty member and a representative from the human service agency. Instructor approval required for registration purposes.

Prerequisite(s):

Special permission and senior standing.

PSYC 496 - Capstone: Internship in Psychology

1 to 15 Credit(s)

Senior psychology majors will gain applied experience in psychology by volunteering for a service organization.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T
AND

PSYC 205 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T
AND

PSYC 330 Minimum Grade: C- OR T
AND

PSYC 355 Minimum Grade: C- OR T

Recommended Electives (1 needed to meet upper-level requirement of 42 credits)

PSYC 315 - Multicultural Issues

3 Credit(s)

In this course, students will explore various components of a multicultural society and the impact of social and cultural forces on identity development and formation. The processes of acculturation and assimilation will be discussed. Students will also gain insight into their own cultural experiences in a pluralistic society.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

PSYC 375 - Human Sexuality

3 Credit(s)

In this multidisciplinary course, students will be introduced to the physiological, medical, sociological, psychological, legal, ethical, moral, and educational facets of human sexuality. Topics in this course include male and female sexual anatomy and sexual response, contraception and disease control, sexually transmitted diseases, and sexual orientation.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 386 - Theory and Practice

3 Credit(s)

This course presents the historical underpinnings of the major theories and principles of learning, and how they are used in applied settings. Classic learning theories are contrasted with contemporary approaches. Students will learn cognitive behavioral assessment and intervention strategies. Topics include traditional behavior modification, as well as contemporary social learning theory and cognitive-behavioral change strategies.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 410 - Social Psychology

3 Credit(s)

This course will examine how social processes impact thoughts, feelings, and behavior through the survey of theory and research. Topics will include attraction, aggression, helping, obedience, attitudes, and prejudice.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

SOC 318 - Race, Class, and Gender

3 Credit(s)

The focus of this course is on the interrelated ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result and the dynamics of change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 365 - Race and Ethnicity in the U.S.

3 Credit(s)

This course provides a sociological approach to race and ethnic relations in the U.S. today. This course introduces the basic sociological theories and perspectives related to the study of race and ethnicity, the histories, and present status of different racial and ethnic groups in the United States and raises questions about continuing racial discrimination and inequality in our society. Issues of defining race, racial identity, interpersonal and institutional discrimination, segregation, and affirmative action (among others) are explored.

Bachelor of Arts in Sociology, Criminology Emphasis

Go to: Sociology

Note for Sociology Students

- Completion of SOC 201 is a prerequisite for all other sociology courses.
- All Sociology Majors must meet the requirements of the Local Writing Assessment in Sociology as well as the Internship, ePortfolio, and Final Review.

Sociology Required Courses

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

SOC 245 - Criminology

3 Credit(s)

Criminology is an introductory course to the study of crime and criminal behavior with special emphasis on theories of crime and delinquency causation, rates and extent of crime, and social control agents (i.e., the police, courts, and "corrections"). Special topics examined may include gangs, white-collar crimes, property crimes, victimless crimes, and organized crime.

SOC 251 - Social Problems

3 Credit(s)

This course is designed to provide the student with a survey of selected contemporary social problems. Social problems addressed in the class may include poverty, addiction and substance abuse, mental health, violence with a focus on family violence, crime, teen sexuality and pregnancy, and health care issues. The causes, severity, and consequences of the selected social problems are explored. In addition, strategies for alleviating social problems are presented.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

LS 225 Minimum Grade: C- OR T

SOC 255 - Research And Writing in Sociology

3 Credit(s)

This introductory course in social research and writing in sociology offers an overview of how sociologists study the social world, research social phenomena, and write about their findings. This class provides an overview of knowledge production and methods used by sociologists to develop a research agenda, test hypotheses, and refine theories and sociological inquiry. Students will gain the tools needed to conduct social research while also developing the skills necessary to read and critically evaluate sociological research. Students will learn fundamental concepts and mixed methods approach to sociological research. Students will summarize research and identify (1) the research question, (2) assumptions and propositions of the theory, (3) specific hypothesis, (4) methods used, and (5) the findings and results.

Prerequisite(s):

SOC 201 minimum grade C-

SOC 311 - Social Statistics

4 Credit(s)

This course presents a general overview of the statistical methods most commonly used in sociology and the social sciences. As a laboratory component, students will become proficient in SPSS, a computer program designed to aid statistical analysis. These skills will enable the student to read popular applications of statistics in the media with a critical eye; assess the use of statistics in the professional sociological literature; and use statistical tools to answer the sociological questions of interest.

Prerequisite(s):

SOC 255 Minimum Grade: C-

AND

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

SOC 318 - Race, Class, and Gender

3 Credit(s)

The focus of this course is on the interrelated ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result and the dynamics of change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 395 - Pre-Professional Seminar

2 Credit(s)

This course provides an introduction to the profession of sociology and the various career options available to graduates. Occupational and graduate school options are explored in detail through library research, presentations, observational and volunteer experiences, and informational interviews. Skills for job interviewing, resume development, and professional correspondence are explored.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 445 - Sociological Theory

3 Credit(s)

The major theories of society are covered in their classical and contemporary forms.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 455 - Qualitative Research Methods

4 Credit(s)

This course is designed to expose students to a variety of qualitative research methods. Students will be instructed in the fundamentals of research design and implementation, including ethical considerations. Students will read and study the research projects of selected sociologists. Students will engage in multiple hands-on activities to practice research methods. Each student will design a qualitative research project. In the lab component of the course, students will analyze and interpret qualitative data. Finally, students will learn to conduct content analysis, and use grounding theory to code and analyze their data and write a final project report. This course includes a lab day each week and is a 4-credit course.

Prerequisite(s):

SOC 201 Minimum Grade: C-
AND

SOC 255 Minimum Grade: C-

SOC 493 - Internship in Sociology

3 Credit(s)

Students in Sociology are placed at an internship site in the community and conduct a mentored capstone case study. Ninety hours of service with the agency are required. The student is supervised by both a Sociology faculty member and a representative from the human service agency. Instructor approval required for registration purposes.

Prerequisite(s):

Special permission and senior standing.

Criminology Emphasis

SOC 346 - Criminal Justice

3 Credit(s)

The focus of this course is on the organizational structures and social processes of the American criminal justice system. It will examine criminal law, policing, courts, and corrections.

SOC 447 - Correctional Systems

3 Credit(s)

This course will focus on corrections as one of the components of the American criminal justice system and its operation within a democratic form of government. The philosophical and historical underpinnings of punishment and correction will be analyzed and compared (e.g., punishment vs. rehabilitation).

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

SOC 346 Minimum Grade: C- OR T

Choose 1 of the following electives

SOC 347 - Juvenile Delinquency

3 Credit(s)

This course describes the nature of delinquency, including the trends, characteristics, and causes of juvenile delinquency. In addition, the course will examine theories of delinquency, social influences on delinquency, historical and contemporary overviews of the juvenile justice system, and the juvenile justice process from police involvement to the court system and corrections. Finally, methods of treatment and prevention will be identified.

SOC 348 - Women and Crime

3 Credit(s)

This course will address the role women play as criminals, victims, and professionals in the criminal justice system. This course will examine the important intersection between gender and crime, exploring the nature and extent of women's involvement in the criminal justice system. The course will investigate and discuss the relationship between victimization and offending, and study the unique way women are involved in and impacted by the criminal justice system, with case study examples from real crimes.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 444 - Deviance and Control

3 Credit(s)

The sociology of deviance and control examines the nature of rule-making and rule-breaking in modern societies. The course includes theoretical considerations of the causes and consequences of deviance.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

Choose 2 Courses from these Sociology Electives

SOC 279 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

SOC 305 - Rural Sociology

3 Credit(s)

The purpose of this course is to introduce some of the social, political, environmental, and economic problems and prospects associated with rural America. Special attention will also be given rural community services and social institutions, with some focus on the San Luis Valley and other parts of rural Colorado.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 315 - Sociology of Education

3 Credit(s)

This course explores the relationship between education and society with special emphasis on the effects of this relationship on the lives of students in the American education system.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 320 - Marriages and Families

3 Credit(s)

This course will provide an overview of the family from a sociological perspective. The family is considered to be one of the most private and pervasive institutions in society. All of us have had contact with at least one family, and many of us will be involved in several different families during our lifetime. Our experiences point to the numerous transformations in family life. To obtain a better understanding of these changes, recent sociological research and data on the family will be utilized in this course. In addition to examining the history of the family, the course will study the contemporary family and its diversity. The course will examine traditional marriage/family arrangements and alternative processes of mate selection and family formation. Finally, the course will examine parenting, the relationship between work and family, divorce and reconstituted families.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 345 - Women, Sport, and Society

3 Credit(s)

This course will explore how women have been involved in sports and athletics, how they have fought to claim recognition and legitimacy among historically male dominated settings, and how they continue to shape sports and the role of women in society. We will explore a wide variety of topics in society related to women in sports including historical influences, equitable access, characteristics of female sport participation, sport opportunities, and sport leadership. Topics will include Title IX, female bodies and physiology, sport diversity, gender identity, women's sport and aging, disabilities, sport and sexual violence, media and women's portrayal in sports, competitive sports in high school, college, and professional leagues, and marketing women's sports.

SOC 347 - Juvenile Delinquency

3 Credit(s)

This course describes the nature of delinquency, including the trends, characteristics, and causes of juvenile delinquency. In addition, the course will examine theories of delinquency, social influences on delinquency, historical and contemporary overviews of the juvenile justice system, and the juvenile justice process from police involvement to the court system and corrections. Finally, methods of treatment and prevention will be identified.

SOC 348 - Women and Crime

3 Credit(s)

This course will address the role women play as criminals, victims, and professionals in the criminal justice system. This course will examine the important intersection between gender and crime, exploring the nature and extent of women's involvement in the criminal justice system. The course will investigate and discuss the relationship between

victimization and offending, and study the unique way women are involved in and impacted by the criminal justice system, with case study examples from real crimes.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 365 - Race and Ethnicity in the U.S.

3 Credit(s)

This course provides a sociological approach to race and ethnic relations in the U.S. today. This course introduces the basic sociological theories and perspectives related to the study of race and ethnicity, the histories, and present status of different racial and ethnic groups in the United States and raises questions about continuing racial discrimination and inequality in our society. Issues of defining race, racial identity, interpersonal and institutional discrimination, segregation, and affirmative action (among others) are explored.

SOC 370 - Poverty and Wealth

3 Credit(s)

This course examines the historical and socio-cultural factors which influence the creation and maintenance of poverty and wealth. Emphasis will be on structural factors and theoretical explanations of poverty and inequality. This course will also focus on the implications for policy and social programs aimed at poverty and other social class issues. In addition, there will be exploration of systems of power, privilege, and domination that are central to the American social structure. Finally, the issues of empowerment, resistance, and solutions to social inequality will be assessed.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

SOC 251 Minimum Grade: C- OR T

SOC 379 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

SOC 391 - Sociology of Religion

3 Credit(s)

This course will introduce students to an examination of religion through sociological inquiry and imagination. Students will learn how sociologists study religion and will apply classical and contemporary sociological theories to understand both personal religious experiences/identities and organized religion as a social phenomenon. The course explores socialization into religions, the processes of conversion and apostasy, and various forms of organizational structures for religious groups. Other issues to be explored include how religious identity and structure connect to gender, race, sexuality, and social class; competition and conflict between different religious groups; as well as the tension between religion as a social institution and secularization trends in the contemporary US.

Prerequisite(s):

Junior standing

SOC 401 - Self & Society

3 Credit(s)

This course will look at social psychology from a sociological perspective. More specifically, students will utilize the symbolic interactionist theory to examine how identities, selves, social life, and social reality are products of ongoing social interactions.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 419 - Gender and Society

3 Credit(s)

The aim of the course is for students to become familiar with the continuing differences and inequalities between women and men in the contemporary United States, and to begin to explain why and how they occur through a sociological lens. Understanding gender as it relates to other social identities (for example, race, class and sexuality) is an important organizing framework of the course. Students will learn about the gendered arrangements in a variety of social contexts such as education, the media, work and the economy, and the family.

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 430 - Social Movements

3 Credit(s)

This course is designed to provide an analysis of social movements on a broad array of topics including issues of how they form, why they form, when are they successful, and whether they change society. We will be looking at broader historical movements from the civil rights movement, the environmental movement and the feminist movement as well as more recent movements, on race, class and gender issues. We will look at how they relate to diversity and equity, social justice, globalization, and cultural change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 440 - Diversity in Media

3 Credit(s)

Students will analyze how US media represents traditionally marginalized people in the United States. The course will

be primarily research, case study, and discussion based, with students and instructor working together to generate ideas and critique dominant ideologies.

SOC 444 - Deviance and Control

3 Credit(s)

The sociology of deviance and control examines the nature of rule-making and rule-breaking in modern societies. The course includes theoretical considerations of the causes and consequences of deviance.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 479 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

Note:

- For students choosing the Criminology emphasis: SOC 352, SOC 370, and SOC 470 are also available as elective courses.
- For students choosing the Social Work emphasis: SOC 346, SOC 347, and SOC 447 are also available as elective courses.

Bachelor of Arts in Sociology, Social Work Emphasis

Go to: Sociology

Note for Sociology Students

- Completion of SOC 201 is a prerequisite for all other sociology courses.
- All Sociology Majors must meet the requirements of the Local Writing Assessment in Sociology as well as the Internship, ePortfolio, and Final Review.

Sociology Required Courses

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

SOC 245 - Criminology

3 Credit(s)

Criminology is an introductory course to the study of crime and criminal behavior with special emphasis on theories of crime and delinquency causation, rates and extent of crime, and social control agents (i.e., the police, courts, and "corrections"). Special topics examined may include gangs, white-collar crimes, property crimes, victimless crimes, and organized crime.

SOC 251 - Social Problems

3 Credit(s)

This course is designed to provide the student with a survey of selected contemporary social problems. Social problems addressed in the class may include poverty, addiction and substance abuse, mental health, violence with a focus on family violence, crime, teen sexuality and pregnancy, and health care issues. The causes, severity, and consequences of the selected social problems are explored. In addition, strategies for alleviating social problems are presented.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

LS 225 Minimum Grade: C- OR T

SOC 255 - Research And Writing in Sociology

3 Credit(s)

This introductory course in social research and writing in sociology offers an overview of how sociologists study the social world, research social phenomena, and write about their findings. This class provides an overview of knowledge production and methods used by sociologists to develop a research agenda, test hypotheses, and refine theories and sociological inquiry. Students will gain the tools needed to conduct social research while also developing the skills necessary to read and critically evaluate sociological research. Students will learn fundamental concepts and mixed methods approach to sociological research. Students will summarize research and identify (1) the research question, (2) assumptions and propositions of the theory, (3) specific hypothesis, (4) methods used, and (5) the findings and results.

Prerequisite(s):

SOC 201 minimum grade C-

SOC 311 - Social Statistics

4 Credit(s)

This course presents a general overview of the statistical methods most commonly used in sociology and the social sciences. As a laboratory component, students will become proficient in SPSS, a computer program designed to aid statistical analysis. These skills will enable the student to read popular applications of statistics in the media with a critical eye; assess the use of statistics in the professional sociological literature; and use statistical tools to answer the sociological questions of interest.

Prerequisite(s):

SOC 255 Minimum Grade: C-

AND

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

SOC 318 - Race, Class, and Gender

3 Credit(s)

The focus of this course is on the interrelated ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result and the dynamics of change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 395 - Pre-Professional Seminar

2 Credit(s)

This course provides an introduction to the profession of sociology and the various career options available to graduates. Occupational and graduate school options are explored in detail through library research, presentations, observational and volunteer experiences, and informational interviews. Skills for job interviewing, resume development, and professional correspondence are explored.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 445 - Sociological Theory

3 Credit(s)

The major theories of society are covered in their classical and contemporary forms.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 455 - Qualitative Research Methods

4 Credit(s)

This course is designed to expose students to a variety of qualitative research methods. Students will be instructed in the fundamentals of research design and implementation, including ethical considerations. Students will read and study the research projects of selected sociologists. Students will engage in multiple hands-on activities to practice research methods. Each student will design a qualitative research project. In the lab component of the course, students will analyze and interpret qualitative data. Finally, students will learn to conduct content analysis, and use grounding theory to code and analyze their data and write a final project report. This course includes a lab day each week and is a 4-credit course.

Prerequisite(s):

SOC 201 Minimum Grade: C-
AND

SOC 255 Minimum Grade: C-

SOC 493 - Internship in Sociology

3 Credit(s)

Students in Sociology are placed at an internship site in the community and conduct a mentored capstone case study. Ninety hours of service with the agency are required. The student is supervised by both a Sociology faculty member and a representative from the human service agency. Instructor approval required for registration purposes.

Prerequisite(s):

Special permission and senior standing.

Social Work Emphasis

SOC 352 - Social Work Practices

3 Credit(s)

This course is an introduction to the nuts-and-bolts of social work practice. The course is designed with several general objectives in mind: (1) to familiarize the student with specific techniques of social work such as the person-in-environment approach and case management, (2) to provide a fundamental understanding of roles of community and family in social work practice, (3) to explore the needs of selected special populations in the community, (4) to identify the biological, psychological, and social influences on development and behavior across the life cycle, and (5) to introduce the student to fundamental social work practice skills.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

SOC 251 Minimum Grade: C- OR T

SOC 470 - Social and Public Programs

3 Credit(s)

This course analyzes the historical development, current content, and adequacy of social welfare policies in the United States. Specific policy areas to be discussed include income maintenance (including social insurance and public assistance), mental health, health care, and aging.

Prerequisite(s):

SOC 352 Minimum Grade: C- OR T

Choose 1 of the following electives

SOC 320 - Marriages and Families**3 Credit(s)**

This course will provide an overview of the family from a sociological perspective. The family is considered to be one of the most private and pervasive institutions in society. All of us have had contact with at least one family, and many of us will be involved in several different families during our lifetime. Our experiences point to the numerous transformations in family life. To obtain a better understanding of these changes, recent sociological research and data on the family will be utilized in this course. In addition to examining the history of the family, the course will study the contemporary family and its diversity. The course will examine traditional marriage/family arrangements and alternative processes of mate selection and family formation. Finally, the course will examine parenting, the relationship between work and family, divorce and reconstituted families.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 370 - Poverty and Wealth**3 Credit(s)**

This course examines the historical and socio-cultural factors which influence the creation and maintenance of poverty and wealth. Emphasis will be on structural factors and theoretical explanations of poverty and inequality. This course will also focus on the implications for policy and social programs aimed at poverty and other social class issues. In addition, there will be exploration of systems of power, privilege, and domination that are central to the American social structure. Finally, the issues of empowerment, resistance, and solutions to social inequality will be assessed.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

AND

SOC 251 Minimum Grade: C- OR T

Choose 2 Courses from these Sociology Electives

SOC 279 - Special Topics**1 to 5 Credit(s)**

Offered periodically to meet student special interests in the field.

SOC 305 - Rural Sociology**3 Credit(s)**

The purpose of this course is to introduce some of the social, political, environmental, and economic problems and prospects associated with rural America. Special attention will also be given rural community services and social

institutions, with some focus on the San Luis Valley and other parts of rural Colorado.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 315 - Sociology of Education

3 Credit(s)

This course explores the relationship between education and society with special emphasis on the effects of this relationship on the lives of students in the American education system.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 320 - Marriages and Families

3 Credit(s)

This course will provide an overview of the family from a sociological perspective. The family is considered to be one of the most private and pervasive institutions in society. All of us have had contact with at least one family, and many of us will be involved in several different families during our lifetime. Our experiences point to the numerous transformations in family life. To obtain a better understanding of these changes, recent sociological research and data on the family will be utilized in this course. In addition to examining the history of the family, the course will study the contemporary family and its diversity. The course will examine traditional marriage/family arrangements and alternative processes of mate selection and family formation. Finally, the course will examine parenting, the relationship between work and family, divorce and reconstituted families.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 345 - Women, Sport, and Society

3 Credit(s)

This course will explore how women have been involved in sports and athletics, how they have fought to claim recognition and legitimacy among historically male dominated settings, and how they continue to shape sports and the role of women in society. We will explore a wide variety of topics in society related to women in sports including historical influences, equitable access, characteristics of female sport participation, sport opportunities, and sport leadership. Topics will include Title IX, female bodies and physiology, sport diversity, gender identity, women's sport and aging, disabilities, sport and sexual violence, media and women's portrayal in sports, competitive sports in high school, college, and professional leagues, and marketing women's sports.

SOC 347 - Juvenile Delinquency

3 Credit(s)

This course describes the nature of delinquency, including the trends, characteristics, and causes of juvenile delinquency. In addition, the course will examine theories of delinquency, social influences on delinquency, historical and contemporary overviews of the juvenile justice system, and the juvenile justice process from police involvement to the court system and corrections. Finally, methods of treatment and prevention will be identified.

SOC 348 - Women and Crime

3 Credit(s)

This course will address the role women play as criminals, victims, and professionals in the criminal justice system. This course will examine the important intersection between gender and crime, exploring the nature and extent of women's involvement in the criminal justice system. The course will investigate and discuss the relationship between victimization and offending, and study the unique way women are involved in and impacted by the criminal justice system, with case study examples from real crimes.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 365 - Race and Ethnicity in the U.S.

3 Credit(s)

This course provides a sociological approach to race and ethnic relations in the U.S. today. This course introduces the basic sociological theories and perspectives related to the study of race and ethnicity, the histories, and present status of different racial and ethnic groups in the United States and raises questions about continuing racial discrimination and inequality in our society. Issues of defining race, racial identity, interpersonal and institutional discrimination, segregation, and affirmative action (among others) are explored.

SOC 370 - Poverty and Wealth

3 Credit(s)

This course examines the historical and socio-cultural factors which influence the creation and maintenance of poverty and wealth. Emphasis will be on structural factors and theoretical explanations of poverty and inequality. This course will also focus on the implications for policy and social programs aimed at poverty and other social class issues. In addition, there will be exploration of systems of power, privilege, and domination that are central to the American social structure. Finally, the issues of empowerment, resistance, and solutions to social inequality will be assessed.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

SOC 251 Minimum Grade: C- OR T

SOC 379 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

SOC 391 - Sociology of Religion

3 Credit(s)

This course will introduce students to an examination of religion through sociological inquiry and imagination. Students will learn how sociologists study religion and will apply classical and contemporary sociological theories to understand both personal religious experiences/identities and organized religion as a social

phenomenon. The course explores socialization into religions, the processes of conversion and apostasy, and various forms of organizational structures for religious groups. Other issues to be explored include how religious identity and structure connect to gender, race, sexuality, and social class; competition and conflict between different religious groups; as well as the tension between religion as a social institution and secularization trends in the contemporary US.

Prerequisite(s):

Junior standing

SOC 401 - Self & Society

3 Credit(s)

This course will look at social psychology from a sociological perspective. More specifically, students will utilize the symbolic interactionist theory to examine how identities, selves, social life, and social reality are products of ongoing social interactions.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 419 - Gender and Society

3 Credit(s)

The aim of the course is for students to become familiar with the continuing differences and inequalities between women and men in the contemporary United States, and to begin to explain why and how they occur through a sociological lens. Understanding gender as it relates to other social identities (for example, race, class and sexuality) is an important organizing framework of the course. Students will learn about the gendered arrangements in a variety of social contexts such as education, the media, work and the economy, and the family.

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 430 - Social Movements

3 Credit(s)

This course is designed to provide an analysis of social movements on a broad array of topics including issues of how they form, why they form, when are they successful, and whether they change society. We will be looking at broader historical movements from the civil rights movement, the environmental movement and the feminist movement as well as more recent movements, on race, class and gender issues. We will look at how they relate to diversity and equity, social justice, globalization, and cultural change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 440 - Diversity in Media

3 Credit(s)

Students will analyze how US media represents traditionally marginalized people in the United States. The course will be primarily research, case study, and discussion based, with students and instructor working together to generate ideas and critique dominant ideologies.

SOC 444 - Deviance and Control

3 Credit(s)

The sociology of deviance and control examines the nature of rule-making and rule-breaking in modern societies. The course includes theoretical considerations of the causes and consequences of deviance.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 479 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

Note:

- For students choosing the Criminology emphasis: SOC 352, SOC 370, and SOC 470 are also available as elective courses.
- For students choosing the Social Work emphasis: SOC 346, SOC 347, and SOC 447 are also available as elective courses.

Minor in Sociology

Go to: Sociology

A Minor in Sociology (18 hours excluding SOC 201) is available through consultation with any sociology faculty member

School of Kinesiology & Health Sciences

Director

- **Dr. Terry Dupler**

Programs

- Food Studies (interdisciplinary)
- Kinesiology
- Outdoor Education and Stewardship
- Public Health

Food Studies (interdisciplinary)

- Return to: School of Kinesiology & Health Sciences

Food Studies is an interdisciplinary academic exploration of the importance and impact of food on all aspects of human existence: health & wellness, economics, business, environment & sustainability, food production, and social & cultural.

Learn more about: Interdisciplinary Studies

Faculty

Program Coordinator

- Professor Reilly Caldwell

Lecturer

- Reilly Caldwell, MA

Course List

All Food Studies Courses

Bachelor of Arts in Interdisciplinary Studies, Food Studies - Business, Economics, and Policy Emphasis

Go to: Food Studies Department

Food Studies Core Requirements

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BUS 105 - Introduction to Agribusiness

3 Credit(s)

An introductory course designed to provide students with a basic background in agribusiness issues and practices to give them the foundation to be successful in upper level agribusiness courses and meet expectations for basic knowledge in agribusiness relationships.

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

FOOD 100 - Perspectives on Food

3 Credit(s)

This course is an exploration of the multitude of roles that food plays in the world. Each class will consist of a discussion of food through a different lens, such as culture, history, economy, nutrition, power, medicine, and ecology. The course will be highly discussion based and students will be challenged to explore their own personal relationship with food. Grades will be determined based on class participation, weekly reading reflections, a blog-post, and a food sharing presentation in which you will explore the history, culture and personal meaning of a specific dish.

FOOD 200 - U.S. Food Systems

3 Credit(s)

This course will provide an overview of the U.S. Food System, including the policy, agricultural, and cultural history that has led us to the food system that we have today. The course will include the following topics: the role of policy in shaping the food system; the history and current state of federal governmental food and agricultural programs; food as

an industry (production, processing, distribution, sales, advertising, and consumer behavior). We will explore the implication of our current system for health, communities, and the environment.

FOOD 250 - Community Food Systems

3 Credit(s)

In this course, students will study local food systems, using the San Luis Valley as a case study for a broader understanding of the role of local food systems in community vitality and health. We will explore: the pathways of food from the farm, to the distributor, to consumer, and finally as waste; inequalities in food access within communities; strategies for creating a resilient and sustainable local food system; and the major players in the local food system. Students will be provided with many examples of organizations using creative solutions to food system problems.

Prerequisite(s):

FOOD 100 Minimum Grade: C-
AND

FOOD 200 Minimum Grade: C-

FOOD 300 - Food Lab I

4 Credit(s)

This course prepares students for careers in which they will be working with food and covers basic knowledge and skills related to food safety, growing and harvesting food, procuring food, preparing food, and planning menus and educational content. We will spend time working in the Farm Park, helping with tasks and harvesting. In the classroom and kitchen, we will learn basic food preparation, seasonal and local foods, nutritional evaluation of foods, procurement, menu planning, and nutrition education.

FOOD 350 - Food Lab II

4 Credit(s)

Food lab is a hands-on upper level course for Food Studies majors to learn about food from Farm to Table. Food Lab I & II should be taken in consecutive Spring and Fall semesters, as the Food Lab I students will ideally plant a garden to be harvested by the students in Food Lab II, the following fall. Even if not possible the courses will still be building upon each other. In Food Lab II, students in the class will work together to take care of the garden and harvest crops using sustainable practices. If this is not possible, students will still learn various skills for preparing the land for the harvesting season, taking care of plants, and learning various gardening skills through experiences working at other farms. Grades will be determined by attendance and participation, as well as a midterm reflection and a final project, paper, or exam. Students will also begin learning cooking techniques and styles, getting to practice and try food and skills from different parts of the world.

Prerequisite(s):

FOOD 300 Minimum Grade: C-

FOOD 400 - Food Studies Internship I

3 Credit(s)

This is the first internship for the Food Studies interdisciplinary degree. This course does not include regular classroom instruction, but is an internship in a food-related organization. The purpose of this internship is for the student to learn

how the organization functions, its mission and principles, and to provide assistance to the organization.

Prerequisite(s):

FOOD 250 Minimum Grade: C-

FOOD 450 - Food Studies Internship II

3 Credit(s)

This is the second internship for the Food Studies interdisciplinary degree. This course does not include regular classroom instruction, but is an internship in a food-related organization. The second semester of internship must include a project for which the student has primary responsibility, to be determined by the internship advisor, in collaboration with the student. The second internship may be completed at the same organization as the first internship or with a new organization.

Prerequisite(s):

FOOD 400 Minimum Grade: C-

FOOD 498 - Food Studies Capstone

3 Credit(s)

This is the capstone course for the Food Studies interdisciplinary degree. This course includes regularly scheduled meetings with the instructor and significant independent work on a self-guided project, chosen by the student, in collaboration with their advisor.

Prerequisite(s):

FOOD 400 Minimum Grade: C-

KIN 120 - Concepts in Wellness

3 Credit(s)

In this course, students will learn about the various dimensions of wellness, assess their own health status, and design interventions to improve personal health through lecture, video, laboratory experiences, and physical activities. This course will also provide students with the information necessary to make evidence-based decisions regarding personal wellness and to understand health disparities among diverse populations. There is a physical activity component to this course.

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

Statistics for Food Studies (choose 1 course)

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

KIN 360 - Statistics in Kinesiology

3 Credit(s)

This course is designed to introduce students to statistical theories, data collection procedures, techniques for analysis and interpretation of data in Kinesiology.

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

SOC 311 - Social Statistics

4 Credit(s)

This course presents a general overview of the statistical methods most commonly used in sociology and the social sciences. As a laboratory component, students will become proficient in SPSS, a computer program designed to aid statistical analysis. These skills will enable the student to read popular applications of statistics in the media with a critical eye; assess the use of statistics in the professional sociological literature; and use statistical tools to answer the sociological questions of interest.

Prerequisite(s):

SOC 255 Minimum Grade: C-

AND

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Business, Economics, and Policy Emphasis (15 credits)

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

OR

BUS 345 - Advertising

3 Credit(s)

Discusses the history, purposes, and regulations of the advertising industry. Topics covered include creative principles, media advantages and disadvantages, media planning, regulation of advertising, and coordination with other promotion activities.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 488 - Agricultural Policy and Farm Bill

3 Credit(s)

Development and implementation of public policy in agriculture, implications of international competition and trade, and development and interpretation of argument in policy development.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

BUS 499 - Individual Studies

1 to 5 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

Bachelor of Arts in Interdisciplinary Studies, Food Studies - Health, Exercise and Nutrition Emphasis

Go to: Food Studies Department

Food Studies Core Requirements

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BUS 105 - Introduction to Agribusiness

3 Credit(s)

An introductory course designed to provide students with a basic background in agribusiness issues and practices to give them the foundation to be successful in upper level agribusiness courses and meet expectations for basic knowledge in agribusiness relationships.

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3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial plans, culminating in presentation of a viable business plan.

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AND

BUS 208 Minimum Grade: C- OR T

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BUS 304 Minimum Grade: C- OR T

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BUS 361 Minimum Grade: C- OR T

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3 Credit(s)

This course is an exploration of the multitude of roles that food plays in the world. Each class will consist of a discussion of food through a different lens, such as culture, history, economy, nutrition, power, medicine, and ecology. The course will be highly discussion based and students will be challenged to explore their own personal relationship with food. Grades will be determined based on class participation, weekly reading reflections, a blog-post, and a food sharing presentation in which you will explore the history, culture and personal meaning of a specific dish.

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3 Credit(s)

This course will provide an overview of the U.S. Food System, including the policy, agricultural, and cultural history that has led us to the food system that we have today. The course will include the following topics: the role of policy in shaping the food system; the history and current state of federal governmental food and agricultural programs; food as an industry (production, processing, distribution, sales, advertising, and consumer behavior). We will explore the implication of our current system for health, communities, and the environment.

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Prerequisite(s):

FOOD 100 Minimum Grade: C-
AND

FOOD 200 Minimum Grade: C-

FOOD 300 - Food Lab I

4 Credit(s)

This course prepares students for careers in which they will be working with food and covers basic knowledge and skills related to food safety, growing and harvesting food, procuring food, preparing food, and planning menus and educational content. We will spend time working in the Farm Park, helping with tasks and harvesting. In the classroom and kitchen, we will learn basic food preparation, seasonal and local foods, nutritional evaluation of foods, procurement, menu planning, and nutrition education.

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be harvested by the students in Food Lab II, the following fall. Even if not possible the courses will still be building upon each other. In Food Lab II, students in the class will work together to take care of the garden and harvest crops using sustainable practices. If this is not possible, students will still learn various skills for preparing the land for the harvesting season, taking care of plants, and learning various gardening skills through experiences working at other farms. Grades will be determined by attendance and participation, as well as a midterm reflection and a final project, paper, or exam. Students will also begin learning cooking techniques and styles, getting to practice and try food and skills from different parts of the world.

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Prerequisite(s):

FOOD 400 Minimum Grade: C-

FOOD 498 - Food Studies Capstone

3 Credit(s)

This is the capstone course for the Food Studies interdisciplinary degree. This course includes regularly scheduled meetings with the instructor and significant independent work on a self-guided project, chosen by the student, in collaboration with their advisor.

Prerequisite(s):

FOOD 400 Minimum Grade: C-

KIN 120 - Concepts in Wellness

3 Credit(s)

In this course, students will learn about the various dimensions of wellness, assess their own health status, and design interventions to improve personal health through lecture, video, laboratory experiences, and physical activities. This

course will also provide students with the information necessary to make evidence-based decisions regarding personal wellness and to understand health disparities among diverse populations. There is a physical activity component to this course.

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

Statistics for Food Studies (choose 1 course)

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

KIN 360 - Statistics in Kinesiology

3 Credit(s)

This course is designed to introduce students to statistical theories, data collection procedures, techniques for analysis and interpretation of data in Kinesiology.

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating

statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

SOC 311 - Social Statistics

4 Credit(s)

This course presents a general overview of the statistical methods most commonly used in sociology and the social sciences. As a laboratory component, students will become proficient in SPSS, a computer program designed to aid statistical analysis. These skills will enable the student to read popular applications of statistics in the media with a critical eye; assess the use of statistics in the professional sociological literature; and use statistical tools to answer the sociological questions of interest.

Prerequisite(s):

SOC 255 Minimum Grade: C-
AND

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Health, Exercise and Nutrition Emphasis

BIOL 112 - Human Anatomy

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure of the human body. Typically taken by HPPE students. Topics include gross anatomy, histology, the relationship between structure and function, and anatomical changes associated with disease processes. Course includes three hours of lecture and two hours of laboratory per week.

OR

BIOL 205 - Human Anatomy and Physiology I

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The integumentary, skeletal, muscular, and nervous systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Test - Minimum Score: 3 **OR** MATH 97 Minimum Grade: S or S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T and SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18 **OR** ENG 96 Minimum Grade: S or T

KIN 301 - Sport and Fitness Nutrition

3 Credit(s)

This course will present a review of basic nutrition. The course will also explore the areas of sport, exercise and fitness nutrition, supplementation, sport drug use and abuse, weight loss diets, eating disorders, weight gain nutrition, body composition, and the metabolic nutritional requirements of various sports and fitness activities.

Prerequisite(s):

KIN-329 Minimum Grade: C- OR T

AND

BIOL-112 Minimum Grade: C- OR T

OR

BIOL-205 Minimum Grade: C- OR T

KIN 302 - Sport Psychology

3 Credit(s)

Sport psychology is primarily concerned with the interaction between psychological variables and participation in sport and exercise. This course will review this interaction by addressing variables that affect the individual athlete, influence sport and exercise environments, shape group processes, enhance health and wellbeing, improve performance, and facilitate psychological growth and development in sport participants from diverse populations.

OR

KIN 427 - Coaching Tech Strength / Conditioning

3 Credit(s)

This course is designed to provide information relative to the basic foundation of coaching sports conditioning including muscle physiology, bioenergetics, training methodology, exercise technique, program design, and facility management. Students will be given the opportunity to develop a general strength coaching philosophy and to demonstrate their knowledge relative to proper lifting techniques demonstrate their knowledge relative to proper lifting and training procedures.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T

KIN 329 - Exercise Physiology

3 Credit(s)

This course presents an introduction and overview of the physiological bases of physical education, sport, and athletics. The effects of exercise on the various systems will be considered. Practical application of exercise science to physical fitness and athletic performance will be emphasized.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T

OR

BIOL 205 Minimum Grade: C- OR T

Co-requisite(s): KIN-329L

KIN 329L - Exercise Physiology Lab

1 Credit(s)

This exercise physiology lab class is designed to supplement the exercise physiology lecture course. This course will provide students with a hands-on experience in which they can apply concepts learned in the classroom to practice in the human performance laboratory and field of exercise, fitness, and sport.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T

OR

BIOL 205 Minimum Grade: C- OR T

Co-requisite(s): KIN-329

KIN 380 - Diversity, Equity Sport, and Society

3 Credit(s)

This course has a two-fold purpose: first, it is designed to provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask questions and think critically about sport as a part of society. This course will explore issues around diversity, equity and inclusion in sport and society.

Bachelor of Arts in Interdisciplinary Studies, Food Studies - Sociology and Social Justice Emphasis

Go to: Food Studies Department

Food Studies Core Requirements

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BUS 105 - Introduction to Agribusiness

3 Credit(s)

An introductory course designed to provide students with a basic background in agribusiness issues and practices to give them the foundation to be successful in upper level agribusiness courses and meet expectations for basic knowledge in agribusiness relationships.

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

FOOD 100 - Perspectives on Food**3 Credit(s)**

This course is an exploration of the multitude of roles that food plays in the world. Each class will consist of a discussion of food through a different lens, such as culture, history, economy, nutrition, power, medicine, and ecology. The course will be highly discussion based and students will be challenged to explore their own personal relationship with food. Grades will be determined based on class participation, weekly reading reflections, a blog-post, and a food sharing presentation in which you will explore the history, culture and personal meaning of a specific dish.

FOOD 200 - U.S. Food Systems**3 Credit(s)**

This course will provide an overview of the U.S. Food System, including the policy, agricultural, and cultural history that has led us to the food system that we have today. The course will include the following topics: the role of policy in shaping the food system; the history and current state of federal governmental food and agricultural programs; food as an industry (production, processing, distribution, sales, advertising, and consumer behavior). We will explore the implication of our current system for health, communities, and the environment.

FOOD 250 - Community Food Systems**3 Credit(s)**

In this course, students will study local food systems, using the San Luis Valley as a case study for a broader understanding of the role of local food systems in community vitality and health. We will explore: the pathways of food from the farm, to the distributor, to consumer, and finally as waste; inequalities in food access within communities; strategies for creating a resilient and sustainable local food system; and the major players in the local food system. Students will be provided with many examples of organizations using creative solutions to food system problems.

Prerequisite(s):

FOOD 100 Minimum Grade: C-
AND

FOOD 200 Minimum Grade: C-

FOOD 300 - Food Lab I

4 Credit(s)

This course prepares students for careers in which they will be working with food and covers basic knowledge and skills related to food safety, growing and harvesting food, procuring food, preparing food, and planning menus and educational content. We will spend time working in the Farm Park, helping with tasks and harvesting. In the classroom and kitchen, we will learn basic food preparation, seasonal and local foods, nutritional evaluation of foods, procurement, menu planning, and nutrition education.

FOOD 350 - Food Lab II

4 Credit(s)

Food lab is a hands-on upper level course for Food Studies majors to learn about food from Farm to Table. Food Lab I & II should be taken in consecutive Spring and Fall semesters, as the Food Lab I students will ideally plant a garden to be harvested by the students in Food Lab II, the following fall. Even if not possible the courses will still be building upon each other. In Food Lab II, students in the class will work together to take care of the garden and harvest crops using sustainable practices. If this is not possible, students will still learn various skills for preparing the land for the harvesting season, taking care of plants, and learning various gardening skills through experiences working at other farms. Grades will be determined by attendance and participation, as well as a midterm reflection and a final project, paper, or exam. Students will also begin learning cooking techniques and styles, getting to practice and try food and skills from different parts of the world.

Prerequisite(s):

FOOD 300 Minimum Grade: C-

FOOD 400 - Food Studies Internship I

3 Credit(s)

This is the first internship for the Food Studies interdisciplinary degree. This course does not include regular classroom instruction, but is an internship in a food-related organization. The purpose of this internship is for the student to learn how the organization functions, its mission and principles, and to provide assistance to the organization.

Prerequisite(s):

FOOD 250 Minimum Grade: C-

FOOD 450 - Food Studies Internship II

3 Credit(s)

This is the second internship for the Food Studies interdisciplinary degree. This course does not include regular classroom instruction, but is an internship in a food-related organization. The second semester of internship must include a project for which the student has primary responsibility, to be determined by the internship advisor, in collaboration with the student. The second internship may be completed at the same organization as the first internship or with a new organization.

Prerequisite(s):

FOOD 400 Minimum Grade: C-

FOOD 498 - Food Studies Capstone

3 Credit(s)

This is the capstone course for the Food Studies interdisciplinary degree. This course includes regularly scheduled meetings with the instructor and significant independent work on a self-guided project, chosen by the student, in collaboration with their advisor.

Prerequisite(s):

FOOD 400 Minimum Grade: C-

KIN 120 - Concepts in Wellness

3 Credit(s)

In this course, students will learn about the various dimensions of wellness, assess their own health status, and design interventions to improve personal health through lecture, video, laboratory experiences, and physical activities. This course will also provide students with the information necessary to make evidence-based decisions regarding personal wellness and to understand health disparities among diverse populations. There is a physical activity component to this course.

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

Statistics for Food Studies (choose 1 course)

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

KIN 360 - Statistics in Kinesiology

3 Credit(s)

This course is designed to introduce students to statistical theories, data collection procedures, techniques for analysis and interpretation of data in Kinesiology.

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

SOC 311 - Social Statistics

4 Credit(s)

This course presents a general overview of the statistical methods most commonly used in sociology and the social sciences. As a laboratory component, students will become proficient in SPSS, a computer program designed to aid statistical analysis. These skills will enable the student to read popular applications of statistics in the media with a critical eye; assess the use of statistics in the professional sociological literature; and use statistical tools to answer the sociological questions of interest.

Prerequisite(s):

SOC 255 Minimum Grade: C-
AND

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Sociology and Social Justice Emphasis

SOC 251 - Social Problems

3 Credit(s)

This course is designed to provide the student with a survey of selected contemporary social problems. Social problems addressed in the class may include poverty, addiction and substance abuse, mental health, violence with a focus on family violence, crime, teen sexuality and pregnancy, and health care issues. The causes, severity, and consequences of the selected social problems are explored. In addition, strategies for alleviating social problems are presented.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

AND

LS 225 Minimum Grade: C- OR T

SOC 352 - Social Work Practices

3 Credit(s)

This course is an introduction to the nuts-and-bolts of social work practice. The course is designed with several general objectives in mind: (1) to familiarize the student with specific techniques of social work such as the person-in-environment approach and case management, (2) to provide a fundamental understanding of roles of community and family in social work practice, (3) to explore the needs of selected special populations in the community, (4) to identify the biological, psychological, and social influences on development and behavior across the life cycle, and (5) to introduce the student to fundamental social work practice skills.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

AND

SOC 251 Minimum Grade: C- OR T

SOC 365 - Race and Ethnicity in the U.S.

3 Credit(s)

This course provides a sociological approach to race and ethnic relations in the U.S. today. This course introduces the basic sociological theories and perspectives related to the study of race and ethnicity, the histories, and present status of different racial and ethnic groups in the United States and raises questions about continuing racial discrimination and inequality in our society. Issues of defining race, racial identity, interpersonal and institutional discrimination, segregation, and affirmative action (among others) are explored.

SOC 370 - Poverty and Wealth

3 Credit(s)

This course examines the historical and socio-cultural factors which influence the creation and maintenance of poverty and wealth. Emphasis will be on structural factors and theoretical explanations of poverty and inequality. This course will also focus on the implications for policy and social programs aimed at poverty and other social class issues. In addition, there will be exploration of systems of power, privilege, and domination that are central to the American social structure. Finally, the issues of empowerment, resistance, and solutions to social inequality will be assessed.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

SOC 251 Minimum Grade: C- OR T

SOC 470 - Social and Public Programs

3 Credit(s)

This course analyzes the historical development, current content, and adequacy of social welfare policies in the United States. Specific policy areas to be discussed include income maintenance (including social insurance and public assistance), mental health, health care, and aging.

Prerequisite(s):

SOC 352 Minimum Grade: C- OR T

Bachelor of Arts in Interdisciplinary Studies, Food Studies - Sustainability Emphasis

Go to: Food Studies Department

Food Studies Core Requirements

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BUS 105 - Introduction to Agribusiness

3 Credit(s)

An introductory course designed to provide students with a basic background in agribusiness issues and practices to

give them the foundation to be successful in upper level agribusiness courses and meet expectations for basic knowledge in agribusiness relationships.

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

FOOD 100 - Perspectives on Food

3 Credit(s)

This course is an exploration of the multitude of roles that food plays in the world. Each class will consist of a discussion of food through a different lens, such as culture, history, economy, nutrition, power, medicine, and ecology. The course will be highly discussion based and students will be challenged to explore their own personal relationship with food. Grades will be determined based on class participation, weekly reading reflections, a blog-post, and a food sharing presentation in which you will explore the history, culture and personal meaning of a specific dish.

FOOD 200 - U.S. Food Systems

3 Credit(s)

This course will provide an overview of the U.S. Food System, including the policy, agricultural, and cultural history that has led us to the food system that we have today. The course will include the following topics: the role of policy in shaping the food system; the history and current state of federal governmental food and agricultural programs; food as an industry (production, processing, distribution, sales, advertising, and consumer behavior). We will explore the implication of our current system for health, communities, and the environment.

FOOD 250 - Community Food Systems

3 Credit(s)

In this course, students will study local food systems, using the San Luis Valley as a case study for a broader understanding of the role of local food systems in community vitality and health. We will explore: the pathways of food from the farm, to the distributor, to consumer, and finally as waste; inequalities in food access within communities; strategies for creating a resilient and sustainable local food system; and the major players in the local food system. Students will be provided with many examples of organizations using creative solutions to food system problems.

Prerequisite(s):

FOOD 100 Minimum Grade: C-
AND

FOOD 200 Minimum Grade: C-

FOOD 300 - Food Lab I

4 Credit(s)

This course prepares students for careers in which they will be working with food and covers basic knowledge and skills related to food safety, growing and harvesting food, procuring food, preparing food, and planning menus and educational content. We will spend time working in the Farm Park, helping with tasks and harvesting. In the classroom and kitchen, we will learn basic food preparation, seasonal and local foods, nutritional evaluation of foods, procurement, menu planning, and nutrition education.

FOOD 350 - Food Lab II

4 Credit(s)

Food lab is a hands-on upper level course for Food Studies majors to learn about food from Farm to Table. Food Lab I & II should be taken in consecutive Spring and Fall semesters, as the Food Lab I students will ideally plant a garden to be harvested by the students in Food Lab II, the following fall. Even if not possible the courses will still be building upon each other. In Food Lab II, students in the class will work together to take care of the garden and harvest crops using sustainable practices. If this is not possible, students will still learn various skills for preparing the land for the harvesting season, taking care of plants, and learning various gardening skills through experiences working at other farms. Grades will be determined by attendance and participation, as well as a midterm reflection and a final project, paper, or exam. Students will also begin learning cooking techniques and styles, getting to practice and try food and skills from different parts of the world.

Prerequisite(s):

FOOD 300 Minimum Grade: C-

FOOD 400 - Food Studies Internship I

3 Credit(s)

This is the first internship for the Food Studies interdisciplinary degree. This course does not include regular classroom instruction, but is an internship in a food-related organization. The purpose of this internship is for the student to learn how the organization functions, its mission and principles, and to provide assistance to the organization.

Prerequisite(s):

FOOD 250 Minimum Grade: C-

FOOD 450 - Food Studies Internship II

3 Credit(s)

This is the second internship for the Food Studies interdisciplinary degree. This course does not include regular classroom instruction, but is an internship in a food-related organization. The second semester of internship must include a project for which the student has primary responsibility, to be determined by the internship advisor, in collaboration with the student. The second internship may be completed at the same organization as the first internship or with a new organization.

Prerequisite(s):

FOOD 400 Minimum Grade: C-

FOOD 498 - Food Studies Capstone

3 Credit(s)

This is the capstone course for the Food Studies interdisciplinary degree. This course includes regularly scheduled meetings with the instructor and significant independent work on a self-guided project, chosen by the student, in collaboration with their advisor.

Prerequisite(s):

FOOD 400 Minimum Grade: C-

KIN 120 - Concepts in Wellness

3 Credit(s)

In this course, students will learn about the various dimensions of wellness, assess their own health status, and design interventions to improve personal health through lecture, video, laboratory experiences, and physical activities. This course will also provide students with the information necessary to make evidence-based decisions regarding personal wellness and to understand health disparities among diverse populations. There is a physical activity component to this course.

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

Statistics for Food Studies (choose 1 course)

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

KIN 360 - Statistics in Kinesiology

3 Credit(s)

This course is designed to introduce students to statistical theories, data collection procedures, techniques for analysis and interpretation of data in Kinesiology.

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

SOC 311 - Social Statistics

4 Credit(s)

This course presents a general overview of the statistical methods most commonly used in sociology and the social sciences. As a laboratory component, students will become proficient in SPSS, a computer program designed to aid statistical analysis. These skills will enable the student to read popular applications of statistics in the media with a critical eye; assess the use of statistics in the professional sociological literature; and use statistical tools to answer the sociological questions of interest.

Prerequisite(s):

SOC 255 Minimum Grade: C-

AND

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Sustainability Emphasis (15 credits)

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

WATR 101 - Water Essentials: How Water Works

3 Credit(s)

This course is an introduction and overview of water in the West, from its basic chemical structure and physics as well as hydrology and water's role in nature to how water serves and is managed as a beneficial resource for people. This course introduces foundational concepts of water's functional properties, how humans have put water to work and how we have developed systems of water allocation, administration, and management, including an overview of core terminology, and fundamental principles of water management. The course will focus on the Western water environment and issues, with specific discussions on the application and administration of water in Colorado's Rio Grande Basin.

BIOL Elective OR WTR Elective with Approval

Plus a BIOL Elective OR WTR Elective with Approval

Minor in Food Studies

Go to: Food Studies Department

Required Courses (12 credit hours)

FOOD 100 - Perspectives on Food

3 Credit(s)

This course is an exploration of the multitude of roles that food plays in the world. Each class will consist of a discussion of food through a different lens, such as culture, history, economy, nutrition, power, medicine, and ecology. The course will be highly discussion based and students will be challenged to explore their own personal relationship with food. Grades will be determined based on class participation, weekly reading reflections, a blog-post, and a food sharing presentation in which you will explore the history, culture and personal meaning of a specific dish.

FOOD 200 - U.S. Food Systems

3 Credit(s)

This course will provide an overview of the U.S. Food System, including the policy, agricultural, and cultural history that has led us to the food system that we have today. The course will include the following topics: the role of policy in shaping the food system; the history and current state of federal governmental food and agricultural programs; food as an industry (production, processing, distribution, sales, advertising, and consumer behavior). We will explore the implication of our current system for health, communities, and the environment.

FOOD 250 - Community Food Systems

3 Credit(s)

In this course, students will study local food systems, using the San Luis Valley as a case study for a broader understanding of the role of local food systems in community vitality and health. We will explore: the pathways of food from the farm, to the distributor, to consumer, and finally as waste; inequalities in food access within communities; strategies for creating a resilient and sustainable local food system; and the major players in the local food system. Students will be provided with many examples of organizations using creative solutions to food system problems.

Prerequisite(s):

FOOD 100 Minimum Grade: C-
AND

FOOD 200 Minimum Grade: C-

FOOD 300 - Food Lab I

4 Credit(s)

This course prepares students for careers in which they will be working with food and covers basic knowledge and skills related to food safety, growing and harvesting food, procuring food, preparing food, and planning menus and

educational content. We will spend time working in the Farm Park, helping with tasks and harvesting. In the classroom and kitchen, we will learn basic food preparation, seasonal and local foods, nutritional evaluation of foods, procurement, menu planning, and nutrition education.

Electives (choose 2 of the following)

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T
OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

BUS 105 - Introduction to Agribusiness

3 Credit(s)

An introductory course designed to provide students with a basic background in agribusiness issues and practices to give them the foundation to be successful in upper level agribusiness courses and meet expectations for basic knowledge in agribusiness relationships.

KIN 120 - Concepts in Wellness

3 Credit(s)

In this course, students will learn about the various dimensions of wellness, assess their own health status, and design interventions to improve personal health through lecture, video, laboratory experiences, and physical activities. This course will also provide students with the information necessary to make evidence-based decisions regarding personal wellness and to understand health disparities among diverse populations. There is a physical activity component to this course.

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

SOC 305 - Rural Sociology

3 Credit(s)

The purpose of this course is to introduce some of the social, political, environmental, and economic problems and

prospects associated with rural America. Special attention will also be given rural community services and social institutions, with some focus on the San Luis Valley and other parts of rural Colorado.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

KIN 301 - Sport and Fitness Nutrition

3 Credit(s)

This course will present a review of basic nutrition. The course will also explore the areas of sport, exercise and fitness nutrition, supplementation, sport drug use and abuse, weight loss diets, eating disorders, weight gain nutrition, body composition, and the metabolic nutritional requirements of various sports and fitness activities.

Prerequisite(s):

KIN-329 Minimum Grade: C- OR T
AND

BIOL-112 Minimum Grade: C- OR T

OR

BIOL-205 Minimum Grade: C- OR T

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T
AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

FOOD 350 - Food Lab II

4 Credit(s)

Food lab is a hands-on upper level course for Food Studies majors to learn about food from Farm to Table. Food Lab I

& II should be taken in consecutive Spring and Fall semesters, as the Food Lab I students will ideally plant a garden to be harvested by the students in Food Lab II, the following fall. Even if not possible the courses will still be building upon each other. In Food Lab II, students in the class will work together to take care of the garden and harvest crops using sustainable practices. If this is not possible, students will still learn various skills for preparing the land for the harvesting season, taking care of plants, and learning various gardening skills through experiences working at other farms. Grades will be determined by attendance and participation, as well as a midterm reflection and a final project, paper, or exam. Students will also begin learning cooking techniques and styles, getting to practice and try food and skills from different parts of the world.

Prerequisite(s):

FOOD 300 Minimum Grade: C-

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

FOOD 400 - Food Studies Internship I

3 Credit(s)

This is the first internship for the Food Studies interdisciplinary degree. This course does not include regular classroom instruction, but is an internship in a food-related organization. The purpose of this internship is for the student to learn how the organization functions, its mission and principles, and to provide assistance to the organization.

Prerequisite(s):

FOOD 250 Minimum Grade: C-

SOC 470 - Social and Public Programs

3 Credit(s)

This course analyzes the historical development, current content, and adequacy of social welfare policies in the United States. Specific policy areas to be discussed include income maintenance (including social insurance and public assistance), mental health, health care, and aging.

Prerequisite(s):

SOC 352 Minimum Grade: C- OR T

BUS 488 - Agricultural Policy and Farm Bill

3 Credit(s)

Development and implementation of public policy in agriculture, implications of international competition and trade, and development and interpretation of argument in policy development.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

BUS 498 - World Food Distribution/Agricultural Economics

3 Credit(s)

Knowledge and application of economic concepts to the sectors of agriculture including microeconomic and macroeconomic relationships, world markets, and trade.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Kinesiology

Return to: [School of Kinesiology & Health Sciences](#)

Prepare to be a leader, practitioner, or manager in the fitness, health, and sport industries. The Kinesiology Department at Adams State University offers a number of specialized degrees to prepare you for a career in exercise science, physical education, coaching, sport psychology, and sport management. You'll graduate with competency in the wellness, physiology, anatomy, motor development, sport psychology, strength and conditioning, sport administration and more.

On-campus, you'll have access to state-of-the art exercise science, biomechanics, strength and conditioning, mental training, cardiac rehabilitation and PE pedagogy labs. Through our collaborations with local K-12 schools, parks & recreation programs, and physical therapy clinics you'll have plentiful opportunities to put your classroom knowledge to practical use. Adams State also offers courses online, so you can access our expert faculty even if you're not physically present.

Faculty

Department Chair

- Dr. Terry Dupler

Applied Sports Psychology (graduate)

- Dr. Brian Zuleger, Chair

Coaching (graduate)

- Dr. Terry Dupler, Chair

Exercise Science (graduate)

- Dr. Tracey Robinson, Chair

Sports Administration (graduate)

- Prof. Aaron Tuioti-Mariner, Chair

Professors

- Tracey Robinson, Ph.D.
- Brian Zuleger, Ph.D., CMPC

Associate Professors

- Terry Dupler, Ph.D.

Assistant Professors

- Aaron Tuioti-Mariner, M.A., M.B.A. (NTT)

Clinical Professors

- Sara Erdner, Ph.D., CMPC

Lecturers

- Maria Martinez, M.S.
- Kristoffer Mugrage, M.A.

Unless specified otherwise, the rank of associate professor implies tenured status. "NTT" indicates "non-tenure track."

Course List

All Kinesiology Courses

Bachelor of Science in Kinesiology, Exercise Science Emphasis

Go to: Department of Kinesiology

Complete the Following Core Courses

BIOL 205 - Human Anatomy and Physiology I

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The integumentary, skeletal, muscular, and nervous systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Test - Minimum Score: 3 **OR** MATH 97 Minimum Grade: S or S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T and SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18 **OR** ENG 96 Minimum Grade: S or T

BIOL 206 - Human Anatomy and Physiology II

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The digestive, respiratory, circulatory, urinary, endocrine, and reproductive systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL 205 Minimum Grade: C- or T

OR

BIOL 210 Minimum Grade: C- or T

KIN 100 - Foundations of Kinesiology

3 Credit(s)

This course serves as an overview of the historical, philosophical, ethical and sociological foundations of Kinesiology. This course will be delivered with a specific emphasis on exercise science, sport management, sport psychology, and coaching. Students also will study current issues, challenges and trends as they relate to professional careers and the administration of sport, fitness, and physical education. Embedded within this course is an introduction to the key Academic Program Goals of Kinesiology.

KIN 120 - Concepts in Wellness

3 Credit(s)

In this course, students will learn about the various dimensions of wellness, assess their own health status, and design

interventions to improve personal health through lecture, video, laboratory experiences, and physical activities. This course will also provide students with the information necessary to make evidence-based decisions regarding personal wellness and to understand health disparities among diverse populations. There is a physical activity component to this course.

KIN 329 - Exercise Physiology

3 Credit(s)

This course presents an introduction and overview of the physiological bases of physical education, sport, and athletics. The effects of exercise on the various systems will be considered. Practical application of exercise science to physical fitness and athletic performance will be emphasized.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

Co-requisite(s): KIN-329L

KIN 329L - Exercise Physiology Lab

1 Credit(s)

This exercise physiology lab class is designed to supplement the exercise physiology lecture course. This course will provide students with a hands-on experience in which they can apply concepts learned in the classroom to practice in the human performance laboratory and field of exercise, fitness, and sport.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

Co-requisite(s): KIN-329

KIN 340 - Kinesiology

3 Credit(s)

This course focuses on the nature of human movement as influenced by those motor factors, anatomical factors, and mechanical principles that apply at rest and in motion.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

AND

KIN 329 Minimum Grade: C- OR T

AND

KIN 329L Minimum Grade: C- OR T

KIN 341 - Human Motor Development

3 Credit(s)

This course is designed to educate Kinesiology majors in the principles of human motor behavior and its influence on cognitive, affective, and psychomotor development throughout the lifespan. It will introduce students to factors that affect the intellectual, social, emotional, and physical development, growth and maturation of individuals relative to motor acquisition and regression.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

AND

BIOL 206 Minimum Grade: C- OR T

KIN 360 - Statistics in Kinesiology

3 Credit(s)

This course is designed to introduce students to statistical theories, data collection procedures, techniques for analysis and interpretation of data in Kinesiology.

KIN 448 - Adapted Physical Activity

3 Credit(s)

This course is designed to introduce students to legal issues and current trends in instruction and programming across a variety of adapted physical activity settings. Emphasis will be placed on developing knowledge of various disabling conditions, potential activity modifications, and placement alternatives in the physical activity setting. Instruction will focus on inclusion of individuals with special needs in the general physical education program and other physical activity settings as well as the acquisition of lifetime physical activity skills.

Prerequisite(s):

KIN 341 Minimum Grade: C- OR T
AND

BIOL 112 Minimum Grade: C- OR T

OR

BIOL 205 Minimum Grade: C- OR T

AND

BIOL 206 Minimum Grade: C- OR T

KIN 450 - Senior Capstone

3 Credit(s)

This course is designed as a culminating experience for Kinesiology majors. The focus of this High Impact Practice course will be on integrating prior knowledge, competencies, and experiences into practical applications and further professional development. Three main areas will be covered: service-learning, professional development, and personal reflection in relation to the student experience at Adams State.

Prerequisite(s):

Teacher Education Background Check Passed

Exercise Science Emphasis Courses

KIN 301 - Sport and Fitness Nutrition

3 Credit(s)

This course will present a review of basic nutrition. The course will also explore the areas of sport, exercise and fitness nutrition, supplementation, sport drug use and abuse, weight loss diets, eating disorders, weight gain nutrition, body composition, and the metabolic nutritional requirements of various sports and fitness activities.

Prerequisite(s):

KIN-329 Minimum Grade: C- OR T
AND

BIOL-112 Minimum Grade: C- OR T

OR

BIOL-205 Minimum Grade: C- OR T

KIN 302 - Sport Psychology

3 Credit(s)

Sport psychology is primarily concerned with the interaction between psychological variables and participation in sport and exercise. This course will review this interaction by addressing variables that affect the individual athlete, influence sport and exercise environments, shape group processes, enhance health and wellbeing, improve performance, and facilitate psychological growth and development in sport participants from diverse populations.

KIN 309 - Care / Prevention of Athletic Injuries

3 Credit(s)

The course will focus on the care and prevention of athletic injuries, including the evaluation, nature, types, and functions of various rehabilitation programs.

KIN 380 - Diversity, Equity Sport, and Society

3 Credit(s)

This course has a two-fold purpose: first, it is designed to provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask questions and think critically about sport as a part of society. This course will explore issues around diversity, equity and inclusion in sport and society.

KIN 422 - Exercise Evaluation and Fitness Management

3 Credit(s)

This course is designed to familiarize students with the current methods used to determine levels of fitness in apparently healthy individuals, as well as individuals from special populations. Students will learn how to prescribe exercise for these individuals based on their fitness evaluation, basic training principles and other considerations. Students will be given the opportunity to test various individuals within specific testing parameters, and apply course knowledge to practical situations.

Prerequisite(s):

KIN 329L Minimum Grade: C- OR T

KIN 427 - Coaching Tech Strength / Conditioning

3 Credit(s)

This course is designed to provide information relative to the basic foundation of coaching sports conditioning including muscle physiology, bioenergetics, training methodology, exercise technique, program design, and facility management. Students will be given the opportunity to develop a general strength coaching philosophy and to demonstrate their knowledge relative to proper lifting techniques demonstrate their knowledge relative to proper lifting and training procedures.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T

KIN 429 - Advanced Exercise Physiology

3 Credit(s)

This course involves the advanced study of the various physiological systems involved in exercise, fitness and sport. The effects of exercise on these systems will be investigated. Practical application of exercise science knowledge and research to physical fitness and athletic performance will be emphasized.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T

AND

KIN 329L Minimum Grade: C- OR T

KIN 430 - Biomechanics

3 Credit(s)

This course will involve the study of the mechanical principles and factors that influence human movement. Students will develop an understanding of the biomechanical principles to human movement.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T

AND

KIN 329L Minimum Grade: C- OR T

AND

KIN 340 Minimum Grade: C- OR T

KIN 484 - Internship in Kinesiology

3 Credit(s)

This course provides kinesiology students with an opportunity to gain direct work experience in their chosen career field. All Internships in Kinesiology must follow the relevant procedures outlined in the syllabus to be recognized as an ASU internship and to be awarded ASU credit.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T

AND

KIN 422 Minimum Grade: C- OR T

Electives (15 Hours Required)

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 112 - Introduction to Organic/Biological Chemistry

4 Credit(s)

A study of the fundamental concepts of organic chemistry and biochemistry. Will not satisfy requirements for a chemistry major, minor or pre-professional studies (pre-med etc.) The course is satisfactory for biology majors who take only one year of chemistry, and for HPPE advanced track.

Prerequisite(s):

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 112L

CHEM 112L - Introduction to Organic/Biological Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 112.

Co-requisite(s): CHEM 112

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T
OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

PHYS 225 - College Physics I GT-SC1**5 Credit(s)**

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 226 - College Physics II**5 Credit(s)**

The second course of a two-semester lecture-laboratory sequence introducing the fundamental principles of physics. In the second semester, students will be introduced to the areas of electricity, electric circuits, optics, and topics in modern physics. Conceptual understanding as well as problem-solving techniques will be emphasized in the lecture. The laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture.

Prerequisite(s):

PHYS 225 Minimum Grade: C- OR T

- Or other science courses as approved by advisor

All students are required to hold a current and valid CPR, First-Aid, AED card for all upper-division courses.

Bachelor of Science in Kinesiology, Sport & Exercise Studies Emphasis

Go to: Department of Kinesiology

Complete the Following Core Courses

BIOL 112 - Human Anatomy

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure of the human body. Typically taken by HPPE students. Topics include gross anatomy, histology, the relationship between structure and function, and anatomical changes associated with disease processes. Course includes three hours of lecture and two hours of laboratory per week.

KIN 100 - Foundations of Kinesiology

3 Credit(s)

This course serves as an overview of the historical, philosophical, ethical and sociological foundations of Kinesiology. This course will be delivered with a specific emphasis on exercise science, sport management, sport psychology, and coaching. Students also will study current issues, challenges and trends as they relate to professional careers and the administration of sport, fitness, and physical education. Embedded within this course is an introduction to the key Academic Program Goals of Kinesiology.

KIN 120 - Concepts in Wellness

3 Credit(s)

In this course, students will learn about the various dimensions of wellness, assess their own health status, and design interventions to improve personal health through lecture, video, laboratory experiences, and physical activities. This course will also provide students with the information necessary to make evidence-based decisions regarding personal wellness and to understand health disparities among diverse populations. There is a physical activity component to this course.

KIN 329 - Exercise Physiology

3 Credit(s)

This course presents an introduction and overview of the physiological bases of physical education, sport, and athletics. The effects of exercise on the various systems will be considered. Practical application of exercise science to physical fitness and athletic performance will be emphasized.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

Co-requisite(s): KIN-329L

KIN 329L - Exercise Physiology Lab

1 Credit(s)

This exercise physiology lab class is designed to supplement the exercise physiology lecture course. This course will provide students with a hands-on experience in which they can apply concepts learned in the classroom to practice in the human performance laboratory and field of exercise, fitness, and sport.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

Co-requisite(s): KIN-329

KIN 340 - Kinesiology

3 Credit(s)

This course focuses on the nature of human movement as influenced by those motor factors, anatomical factors, and mechanical principles that apply at rest and in motion.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

AND

KIN 329 Minimum Grade: C- OR T

AND

KIN 329L Minimum Grade: C- OR T

KIN 341 - Human Motor Development

3 Credit(s)

This course is designed to educate Kinesiology majors in the principles of human motor behavior and its influence on cognitive, affective, and psychomotor development throughout the lifespan. It will introduce students to factors that affect the intellectual, social, emotional, and physical development, growth and maturation of individuals relative to motor acquisition and regression.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

AND

BIOL 206 Minimum Grade: C- OR T

KIN 450 - Senior Capstone

3 Credit(s)

This course is designed as a culminating experience for Kinesiology majors. The focus of this High Impact Practice course will be on integrating prior knowledge, competencies, and experiences into practical applications and further professional development. Three main areas will be covered: service-learning, professional development, and personal reflection in relation to the student experience at Adams State.

Prerequisite(s):

Teacher Education Background Check Passed

Sport & Exercise Studies Emphasis Requirements

KIN 210 - Sport Communication and Techniques

3 Credit(s)

This course introduces students to the main skills required for sports journalism and public relations, with particular emphasis on writing and public speaking. Students will learn about the historical development and cultural significance of sport and how those have shaped the business of sport. Students will also be introduced to technologies that impact on their abilities to write and disseminate stories and on how those technologies affect the character of messaging.

KIN 301 - Sport and Fitness Nutrition

3 Credit(s)

This course will present a review of basic nutrition. The course will also explore the areas of sport, exercise and fitness nutrition, supplementation, sport drug use and abuse, weight loss diets, eating disorders, weight gain nutrition, body composition, and the metabolic nutritional requirements of various sports and fitness activities.

Prerequisite(s):

KIN-329 Minimum Grade: C- OR T

AND

BIOL-112 Minimum Grade: C- OR T

OR

BIOL-205 Minimum Grade: C- OR T

KIN 305 - Sport Facility Management

3 Credit(s)

This course introduces students to the discipline of facility management as they relate to the sport, recreation, and

leisure industries. Key topics will include planning, designing, managing, scheduling, leading, and supervising sport facilities.

Prerequisite(s):

KIN 100 Minimum Grade: C- OR T

AND

BUS 103 Minimum Grade: C- OR T

KIN 309 - Care / Prevention of Athletic Injuries

3 Credit(s)

The course will focus on the care and prevention of athletic injuries, including the evaluation, nature, types, and functions of various rehabilitation programs.

KIN 350 - Methods of Coaching

3 Credit(s)

This course is intended to provide the foundations of coaching for a person who wants to coach at the youth, elementary, high school or college level. Through a series of discussions, readings, and other projects, the potential coach will gain the knowledge and skills required to be an effective coach. This course will address the many roles and duties a coach must accept to provide positive experiences for athletes in sport.

KIN 360 - Statistics in Kinesiology

3 Credit(s)

This course is designed to introduce students to statistical theories, data collection procedures, techniques for analysis and interpretation of data in Kinesiology.

KIN 380 - Diversity, Equity Sport, and Society

3 Credit(s)

This course has a two-fold purpose: first, it is designed to provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask questions and think critically about sport as a part of society. This course will explore issues around diversity, equity and inclusion in sport and society.

KIN 422 - Exercise Evaluation and Fitness Management

3 Credit(s)

This course is designed to familiarize students with the current methods used to determine levels of fitness in apparently healthy individuals, as well as individuals from special populations. Students will learn how to prescribe exercise for these individuals based on their fitness evaluation, basic training principles and other considerations. Students will be given the opportunity to test various individuals within specific testing parameters, and apply course

knowledge to practical situations.

Prerequisite(s):

KIN 329L Minimum Grade: C- OR T

KIN 427 - Coaching Tech Strength / Conditioning

3 Credit(s)

This course is designed to provide information relative to the basic foundation of coaching sports conditioning including muscle physiology, bioenergetics, training methodology, exercise technique, program design, and facility management. Students will be given the opportunity to develop a general strength coaching philosophy and to demonstrate their knowledge relative to proper lifting techniques demonstrate their knowledge relative to proper lifting and training procedures.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T

KIN 484 - Internship in Kinesiology

3 Credit(s)

This course provides kinesiology students with an opportunity to gain direct work experience in their chosen career field. All Internships in Kinesiology must follow the relevant procedures outlined in the syllabus to be recognized as an ASU internship and to be awarded ASU credit.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T

AND

KIN 422 Minimum Grade: C- OR T

- KIN XXX - Kinesiology Elective **3 Credit(s)**

Electives (22 Credits Required)

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 385 - Sports Marketing

3 Credit(s)

Illustrates the dynamic, progressive and influential nature of sports marketing. Explores the sport marketing concept as a consumer-driven, integrated, goal-oriented philosophy for a team, event, organization or athlete. Topics covered include: athletic endorsements, team sports, event sponsorships and alternative sports.

KIN 391 - Sport Ethics and Leadership

3 Credit(s)

This course explores the myriad of moral and ethical issues pertaining to athletes, sports, and sport organizations and how these apply to professionals in the field of sport management. The course will also explore leadership theories and philosophies. Current examples of ethical dilemmas in sport and sport management will be presented, and students will explore their personal ethics in relation to these issues.

KIN 429 - Advanced Exercise Physiology

3 Credit(s)

This course involves the advanced study of the various physiological systems involved in exercise, fitness and sport. The effects of exercise on these systems will be investigated. Practical application of exercise science knowledge and research to physical fitness and athletic performance will be emphasized.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T
AND

KIN 329L Minimum Grade: C- OR T

KIN 430 - Biomechanics

3 Credit(s)

This course will involve the study of the mechanical principles and factors that influence human movement. Students will develop an understanding of the biomechanical principles to human movement.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T
AND

KIN 329L Minimum Grade: C- OR T

AND

KIN 340 Minimum Grade: C- OR T

- or other courses as approved by an advisor

Bachelor of Science in Kinesiology, Sport and Recreation Management Emphasis

Go to: Department of Kinesiology

Core Requirements

KIN 100 - Foundations of Kinesiology

3 Credit(s)

This course serves as an overview of the historical, philosophical, ethical and sociological foundations of Kinesiology. This course will be delivered with a specific emphasis on exercise science, sport management, sport psychology, and coaching. Students also will study current issues, challenges and trends as they relate to professional careers and the administration of sport, fitness, and physical education. Embedded within this course is an introduction to the key Academic Program Goals of Kinesiology.

KIN 120 - Concepts in Wellness

3 Credit(s)

In this course, students will learn about the various dimensions of wellness, assess their own health status, and design interventions to improve personal health through lecture, video, laboratory experiences, and physical activities. This course will also provide students with the information necessary to make evidence-based decisions regarding personal wellness and to understand health disparities among diverse populations. There is a physical activity component to this course.

KIN 205 - Sports and Recreation Management

3 Credit(s)

The Sport and Recreation Management course is designed for students preparing for positions with sport and club teams, community recreation, intercollegiate and high school athletics programs, international sport organizations, national and international amateur sport organizations, or firms specializing in sport. The course is designed to emphasize fundamental knowledge in sport and recreation and will prepare students for various roles in the industry. Through lectures, readings, video, and classroom assignments students will gain an understanding of the sport and recreation industry and how to successfully manage and lead an organization.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

KIN 302 - Sport Psychology

3 Credit(s)

Sport psychology is primarily concerned with the interaction between psychological variables and participation in sport and exercise. This course will review this interaction by addressing variables that affect the individual athlete, influence sport and exercise environments, shape group processes, enhance health and wellbeing, improve performance, and facilitate psychological growth and development in sport participants from diverse populations.

KIN 350 - Methods of Coaching

3 Credit(s)

This course is intended to provide the foundations of coaching for a person who wants to coach at the youth, elementary, high school or college level. Through a series of discussions, readings, and other projects, the potential coach will gain the knowledge and skills required to be an effective coach. This course will address the many roles and duties a coach must accept to provide positive experiences for athletes in sport.

KIN 380 - Diversity, Equity Sport, and Society

3 Credit(s)

This course has a two-fold purpose: first, it is designed to provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask questions and think critically about sport as a part of society. This course will explore issues around diversity, equity and inclusion in sport and society.

KIN 391 - Sport Ethics and Leadership

3 Credit(s)

This course explores the myriad of moral and ethical issues pertaining to athletes, sports, and sport organizations and how these apply to professionals in the field of sport management. The course will also explore leadership theories and philosophies. Current examples of ethical dilemmas in sport and sport management will be presented, and students will explore their personal ethics in relation to these issues.

KIN 450 - Senior Capstone

3 Credit(s)

This course is designed as a culminating experience for Kinesiology majors. The focus of this High Impact Practice course will be on integrating prior knowledge, competencies, and experiences into practical applications and further professional development. Three main areas will be covered: service-learning, professional development, and personal reflection in relation to the student experience at Adams State.

Prerequisite(s):

Teacher Education Background Check Passed

KIN 484 - Internship in Kinesiology

3 Credit(s)

This course provides kinesiology students with an opportunity to gain direct work experience in their chosen career field. All Internships in Kinesiology must follow the relevant procedures outlined in the syllabus to be recognized as an ASU internship and to be awarded ASU credit.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T
AND

KIN 422 Minimum Grade: C- OR T

Sport and Recreation Management Emphasis

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 305 - Intermediate Accounting I

4 Credit(s)

The first of a two-course sequence of Intermediate Accounting designed to develop a framework for the role financial accounting plays in the world of business. A study of the conceptual basis of accounting will be conducted, creating a more in-depth understanding of the preparation and interpretation of financial statements and related information. This course will focus on the study of modern-day accounting theory and application of generally accepted accounting principles to various topics and financial statement elements. Students will be introduced to the U.S. Accounting Standards Codification and basic research tools.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 315 - Sales and Sales Management

3 Credit(s)

This course is designed to introduce students to management techniques as they relate specifically to the marketing and sales area. Topics covered include: the selling process, compensation systems, motivation and leadership, time and territory management, sales forecasting, quotas, and evaluating the sales force.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 385 - Sports Marketing

3 Credit(s)

Illustrates the dynamic, progressive and influential nature of sports marketing. Explores the sport marketing concept as

a consumer-driven, integrated, goal-oriented philosophy for a team, event, organization or athlete. Topics covered include: athletic endorsements, team sports, event sponsorships and alternative sports.

HIST 350 - History of Sport in America

3 Credit(s)

This course covers the development of sports and their significance in American life from colonial period to present. It is designed both to supplement student's understanding of American History and to examine the role that sports have played in shaping contemporary society. Close attention will be paid to the context of sports development, especially the economic and social environment. Topics will include a study of the role of industrial society in fostering sports, and the changing gender structure of sports.

KIN 210 - Sport Communication and Techniques

3 Credit(s)

This course introduces students to the main skills required for sports journalism and public relations, with particular emphasis on writing and public speaking. Students will learn about the historical development and cultural significance of sport and how those have shaped the business of sport. Students will also be introduced to technologies that impact on their abilities to write and disseminate stories and on how those technologies affect the character of messaging.

KIN 305 - Sport Facility Management

3 Credit(s)

This course introduces students to the discipline of facility management as they relate to the sport, recreation, and leisure industries. Key topics will include planning, designing, managing, scheduling, leading, and supervising sport facilities.

Prerequisite(s):

KIN 100 Minimum Grade: C- OR T
AND

BUS 103 Minimum Grade: C- OR T

KIN 390 - Risk Management

3 Credit(s)

This course explores the structure of the legal system, aspects of product liability, negligence, safety, and liability in the sport industry. Students will learn how to develop contracts designed to alleviate responsibility from a practitioner and/or organization from liability due to ordinary negligence. This course also includes discussions and practical applications for establishing a risk management system for facilities and sports programs.

Prerequisite(s):

KIN 120 Minimum Grade: C- OR T
AND

BUS 103 Minimum Grade: C- OR T

KIN 405 - Event Management

3 Credit(s)

This course focuses student attention on the processes of event management as they relate to the sport, recreation, and leisure industries. During this course, students will become familiar with the techniques and strategies needed to plan, organize, implement, and evaluate special sport and sport-related events. The end product of this High Impact Practice course will conclude with students organizing and executing a special event working with a community organization.

Prerequisite(s):

KIN 100 Minimum Grade: C- OR T
AND

BUS 103 Minimum Grade: C- OR T

KIN 415 - Funding Sports Organizations

3 Credit(s)

This course examines the methods by which sport organizations acquire funds in various settings (professional, amateur, non-profit). Economic implications for sports teams will be observed, as well as taxes, player contracts, and other financial challenges, concepts, and strategies within sport.

Prerequisite(s):

KIN 100 Minimum Grade: C- OR T
AND

BUS 103 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

OR

BUS 207 Minimum Grade: C- OR T

KIN 425 - Sport Law

3 Credit(s)

This course explores the structure of the legal system, aspects of constitutional law, labor and anti-trust law, tort law, product liability, contract law, administrative law, and statutory law applicable to the sport industry.

Prerequisite(s):

KIN 390 Minimum Grade: C- OR T

KIN 433 - International Perspectives of Sport Management

3 Credit(s)

This course will provide students with an understanding of the major concepts, trends, and critical issues in international sport management. Students will explore different international approaches to sport management which will involve comparing the policies, structure and governance of sport in various countries and identifying the challenges and good practices associated with different international approaches.

Prerequisite(s):

KIN 100 Minimum Grade: C- OR T

AND

BUS 103 Minimum Grade: C- OR T

18 Credits of Electives as Approved by Advisor

Master of Science in Kinesiology, Applied Sport Psychology Emphasis (online)

Go to: Department of Kinesiology

This online program comprises 36 credits and offers a wide range of courses and practical experiences in order to provide students the knowledge and skills necessary to become a sport psychology professional. All courses are offered online which allows for greater flexibility and optimum convenience for students who hold full-time careers or cannot relocate. Students can complete the program in two years, which includes all coursework and internships.

Required Courses

KIN 503 - Introduction to Research

3 Credit(s)

This is an introductory research course for graduate students focusing on the area of physical education and human performance. Participants will develop an understanding of the purpose and importance of research in this specific area, overview basic elements of quantitative, qualitative, mixed methods, and action research methods, enhance skills to evaluate and critique problem statement for a specific research study, and gain an appreciation for conducting research.

KIN 506 - Psychology of Coaching

3 Credit(s)

This course will focus on the psychological principles of coaching and explore evidence-based practices in application to coaching. An emphasis will be placed on developing an understanding of human behavior in the sport context and how coaches can apply that knowledge to improve well-being and performance. There will also be a focus on applying these concepts to coaching diverse populations integrated throughout the course.

KIN 509 - Sports Physiology

3 Credit(s)

This course is designed to emphasize background knowledge in Exercise Physiology and Sport Science. Students will learn advanced structure and function of human neuromuscular and cardiovascular systems and develop working knowledge of adaptations made by these systems during training. Students will also learn to apply knowledge learned about external factors affecting these systems including the environmental conditions, nutrition, and ergogenic aids.

KIN 510 - Positive Psychology

3 Credit(s)

A study of positive psychology, specifically looking at well-being as it relates to participants in sport and performance settings.

KIN 520 - Mental Health in Sport

3 Credit(s)

A study of psychological disorders and abnormal human behavior as it relates to participants in sport and performance settings.

KIN 538 - Diversity and Equity in Sport

3 Credit(s)

This course explores aspects of diversity and equity in sport. This course has a two-fold purpose: first, it is designed to provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask questions and think critically about diversity, equity, and inclusion in sport and interaction with society. This course will explore issues around diversity, equity, and inclusion in sport and society.

KIN 550 - Applied Sport Psychology

3 Credit(s)

This course focuses on application of sport psychology principles in practice. This course will focus on the scientist-practitioner model in relation to using evidence-based practices. There will be an emphasis on learning the various mental skills applied to teaching athletes, coaches, and teams; such as motivation, focus, composure, confidence, resiliency, quality practice, well-being, visualization, mastery and team cohesion.

KIN 560 - Mental Strength and Conditioning

3 Credit(s)

This graduate course focuses on advanced techniques and practices of mental strength and conditioning and explores evidence based practices in mental training. Effective coaching strategies, behavioral issues, and personal roles of mental strength coaches that enhance athletic performance will be discussed. This course will focus on the differences between levels in competitive sports, including youth programs, interscholastic, intercollegiate levels, professional/Olympic as well as other areas such as fitness/wellness, military and business.

KIN 570 - Ethics in Applied Sports Psychology

3 Credit(s)

This course will explore ethical and legal issues that applied sport psychology professionals often encounter in their work as teachers, researchers, and practitioners. This course is designed to educate the student on the Association for Applied Sport Psychology (AASP) Code of Ethics, which consists of 6 ethical principles and 26 standards and to meet standards for the required ethics course to sit to take the AASP Certified Mental Performance Consultant exam.

KIN 581 - Case Studies in Applied Sport Psychology

3 Credit(s)

Case studies of real life scenarios in the field of applied sport psychology will serve as discussion points and provide students the opportunity to apply their knowledge and skills in sport psychology to develop methods for how to work with a variety of populations and potential scenarios within applied sport psychology.

KIN 585 - Practicum in Applied Sport Psychology

3 Credit(s)

The practicum is designed to provide a structured practical experience for which the student is preparing. The assignment must be under the supervision of a qualified professional. The practicum is designed to provide the graduate student an actual field based experience in a health, physical education, recreation, or athletic environment. The experience should give the student the opportunity to work with a working professional while enhancing and expanding the skills developed during their undergraduate and graduate programs. The practicum will consist of a minimum of 100 hours.

Prerequisite(s):

Completed a minimum of 18 graduate credit hours including KIN 503 Minimum Grade: C

KIN 586 - Practicum II in Applied Sport Psychology

3 Credit(s)

The practicum is designed to provide a structured practical experience for which the student is preparing. The assignment must be under the supervision of a qualified professional. The practicum is designed to provide the graduate student an actual field-based experience in a health, physical education, recreation, or athletic environment. The experience should give the student the opportunity to work with a working professional while enhancing and expanding the skills developed during their undergraduate and graduate programs. The practicum will consist of a minimum of 100 hours.

Prerequisite(s):

Complete a minimum of 18 graduate credit hours including KIN 503. Minimum Grade: C

Master of Science in Kinesiology, Coaching Emphasis (online)

Go to: Department of Kinesiology

The online Master of Science in Coaching at Adams State University is a 36-credit hour program that offers a wide range of courses and practical experiences in order to provide students with the knowledge and skills necessary to become a more highly qualified coach.

Required Courses

KIN 503 - Introduction to Research

3 Credit(s)

This is an introductory research course for graduate students focusing on the area of physical education and human performance. Participants will develop an understanding of the purpose and importance of research in this specific area,

overview basic elements of quantitative, qualitative, mixed methods, and action research methods, enhance skills to evaluate and critique problem statement for a specific research study, and gain an appreciation for conducting research.

KIN 504 - Methods of Coaching

3 Credit(s)

This graduate course focuses on the foundations of athletic coaching and explores evidence based practices in coaching. Effective coaching strategies, behavioral issues, and personal roles of coaches that enhance athletic performance will be discussed. This course will focus on the differences between levels in competitive sports, including youth programs, interscholastic, and intercollegiate levels as well as coaching diverse populations.

KIN 506 - Psychology of Coaching

3 Credit(s)

This course will focus on the psychological principles of coaching and explore evidence-based practices in application to coaching. An emphasis will be placed on developing an understanding of human behavior in the sport context and how coaches can apply that knowledge to improve well-being and performance. There will also be a focus on applying these concepts to coaching diverse populations integrated throughout the course.

KIN 509 - Sports Physiology

3 Credit(s)

This course is designed to emphasize background knowledge in Exercise Physiology and Sport Science. Students will learn advanced structure and function of human neuromuscular and cardiovascular systems and develop working knowledge of adaptations made by these systems during training. Students will also learn to apply knowledge learned about external factors affecting these systems including the environmental conditions, nutrition, and ergogenic aids.

KIN 520 - Mental Health in Sport

3 Credit(s)

A study of psychological disorders and abnormal human behavior as it relates to participants in sport and performance settings.

KIN 527 - Sport Law

3 Credit(s)

This course is designed to provide the student with an understanding of the legal issues involved in supervision, management, and conduct in sport and recreation.

KIN 538 - Diversity and Equity in Sport

3 Credit(s)

This course explores aspects of diversity and equity in sport. This course has a two-fold purpose: first, it is designed to provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask

questions and think critically about diversity, equity, and inclusion in sport and interaction with society. This course will explore issues around diversity, equity, and inclusion in sport and society.

KIN 539 - Strength and Conditioning

3 Credit(s)

This course is designed to provide information relative to the basic foundation of coaching sport conditioning including muscle physiology, bioenergetics, training methodology, exercise technique, program design, and facility management. Students will be given the opportunity to develop a general strength training program for a specific sport and to demonstrate their knowledge relative to proper lifting techniques and training procedures.

Prerequisite(s):

KIN 509 Minimum Grade: C

KIN 556 - Strategic Management / Leadership

3 Credit(s)

This course will provide a detailed overview of strategic management and leadership with an emphasis on the management of sport organizations in the commercial, public and not for profit sectors. This course will enable learners to evaluate the relevance of distinctive strategic management tools and consider how these can be applied to support the development of effective sport and sport-related organizations. Students also will examine the principles of effective leadership and reflect on their personal leadership style, the skills and competencies that support the style as well as examining plans for personal and professional development.

Prerequisite(s):

BUS 500 Minimum Grade: C

KIN 584 - Exercise Science Practicum

3 Credit(s)

The practicum is designed to provide a structured practical experience for which the student is preparing. The assignment must be under the supervision of a qualified professional. The practicum is designed to provide the graduate student an actual field-based experience in a health, physical education, recreation, or athletic environment. The experience should give the student the opportunity to work with a working professional while enhancing and expanding the skills developed during their undergraduate and graduate programs. The practicum will consist of a minimum of 150 hours.

Prerequisite(s):

Complete a minimum of 18 graduate credit hours including KIN 503 and KIN 543 (minimum grade C).

Plus 6 KIN Elective Credits (advisor approved)

Master of Science in Kinesiology, Exercise Science Emphasis (on-campus)

Go to: Department of Kinesiology

The Master of Science degree in Exercise Science at Adams State is a 36-credit program that offers a wide range of courses and practical experiences in order to prepare students for careers in allied health and sport performance fields. Students can complete the campus-based program in two years which includes coursework, practicum, and research requirements.

A graduate degree in Exercise Science can prepare individuals for leadership roles in corporate fitness, clinical testing, personal training, research, strength and conditioning, or preparation for doctoral-level programs in exercise science.

Required Core

KIN 503 - Introduction to Research

3 Credit(s)

This is an introductory research course for graduate students focusing on the area of physical education and human performance. Participants will develop an understanding of the purpose and importance of research in this specific area, overview basic elements of quantitative, qualitative, mixed methods, and action research methods, enhance skills to evaluate and critique problem statement for a specific research study, and gain an appreciation for conducting research.

KIN 543 - Statistical Methods in Kinesiology

3 Credit(s)

This course is designed as an introduction of the statistics used in measurement and evaluation, and provides opportunities for students to analyze current research in Kinesiology.

Prerequisite(s):

KIN 509 Minimum Grade: B

KIN 584 - Exercise Science Practicum

3 Credit(s)

The practicum is designed to provide a structured practical experience for which the student is preparing. The assignment must be under the supervision of a qualified professional. The practicum is designed to provide the graduate student an actual field-based experience in a health, physical education, recreation, or athletic environment. The experience should give the student the opportunity to work with a working professional while enhancing and expanding the skills developed during their undergraduate and graduate programs. The practicum will consist of a minimum of 150 hours.

Prerequisite(s):

Complete a minimum of 18 graduate credit hours including KIN 503 and KIN 543 (minimum grade C).

Exercise Science

KIN 529 - Physiology of Exercise

3 Credit(s)

An advanced overview of the physiological basis of physical education and athletics. The effects of exercise on various

systems will be considered. Practical application of exercise science to physical fitness and athletic training and performance will be emphasized.

KIN 530 - Human Performance Lab

3 Credit(s)

The Human Performance Lab Internship in the department of KIN is a planned, meaningful work experience. The primary purpose of the human performance lab internship is to allow students the opportunity for hands-on use of various methods of and equipment for exercise/ fitness testing, and to work directly with test subjects so that he/ she is able to apply some of the principles learned in the Physiology of Exercise course.

Prerequisite(s):

KIN 529

Co-requisite(s): KIN 529

KIN 539 - Strength and Conditioning

3 Credit(s)

This course is designed to provide information relative to the basic foundation of coaching sport conditioning including muscle physiology, bioenergetics, training methodology, exercise technique, program design, and facility management. Students will be given the opportunity to develop a general strength training program for a specific sport and to demonstrate their knowledge relative to proper lifting techniques and training procedures.

Prerequisite(s):

KIN 509 Minimum Grade: C

KIN 540 - Biomechanics

3 Credit(s)

This course will involve the study of the anatomical and mechanical principles underlying human movement. Practical application of biomechanical principles in human movement and various sport activities will be emphasized.

KIN 545 - Exercise and Sport Nutrition

3 Credit(s)

An advanced study of nutrition as it applies to exercise and sport. Application of nutrition practices to health, fitness and performance will be explored, as well as issues of supplementation, drug abuse, weight loss/gain strategies, and metabolic nutritional requirements for a variety of sports and exercising individuals.

Prerequisite(s):

KIN 529 Minimum Grade: B

Plus 6 KIN Elective Credits as approved by your Advisor

Plus 1 of the following options

Option 1 - Masters Thesis

KIN 593 - Master's Thesis

6 Credit(s)

This course represents the culminating experience for the graduate student in the Master of Science in Exercise Science program. This course will provide a practical and thorough experience working through a professionally designed research project. It will include a written and oral presentation of the thesis proposal, as well as a written and oral defense of the completed Masters thesis. This course will be taken in the last year of the students program at Adams State University.

Prerequisite(s):

KIN 503 Minimum Grade: C

AND

KIN 543 Minimum Grade: C

Option 2 - Capstone

KIN 596 - Capstone Project

3 Credit(s)

This course is designed to integrate coursework into a capstone experience. It is an applied research course requiring students to utilize the tools and information from all the students coursework into a timely, useful capstone project in cooperation with their professional needs. This course is designed to integrate coursework into a capstone experience. It is an applied research course requiring students to utilize the tools and information from all the students coursework into a timely, useful capstone project in cooperation with their professional needs.

Prerequisite(s):

KIN 503 Minimum Grade: C

AND

KIN 543 Minimum Grade: C

- 1 KIN elective course as approved by your advisor

Master of Science in Kinesiology, Sport Administration Emphasis (online)

Go to: Department of Kinesiology

The online Masters of Science in Sport Administration at Adams State University is a 36-credit program that offers a wide range of courses and practical experiences in order to prepare students for employment in sport administration related careers. The Sport Administration Emphasis has two options: a Thesis option and a capstone option. The Thesis option will provide students the opportunity to further their research interest and prepare them for a doctoral program in sport administration. Students who do not want to pursue a Thesis may continue with the capstone option.

Required Core

KIN 503 - Introduction to Research

3 Credit(s)

This is an introductory research course for graduate students focusing on the area of physical education and human performance. Participants will develop an understanding of the purpose and importance of research in this specific area, overview basic elements of quantitative, qualitative, mixed methods, and action research methods, enhance skills to evaluate and critique problem statement for a specific research study, and gain an appreciation for conducting research.

KIN 585 - Practicum in Applied Sport Psychology

3 Credit(s)

The practicum is designed to provide a structured practical experience for which the student is preparing. The assignment must be under the supervision of a qualified professional. The practicum is designed to provide the graduate student an actual field based experience in a health, physical education, recreation, or athletic environment. The experience should give the student the opportunity to work with a working professional while enhancing and expanding the skills developed during their undergraduate and graduate programs. The practicum will consist of a minimum of 100 hours.

Prerequisite(s):

Completed a minimum of 18 graduate credit hours including KIN 503 Minimum Grade: C

Sport Administration Requirements

BUS 500 - Leadership Skills for Managers

3 Credit(s)

This course teaches practical skills required for effective management at all levels of an organization, and is designed to increase a learner's understanding of key concepts and procedural guidelines related to organizational management, human resource, and leadership. The purpose is to be equipped to deal effectively with managerial challenges dealing with people.

KIN 505 - Sports Marketing and Public Relations

3 Credit(s)

This course prepares students with the tools needed to develop effective marketing and public relations strategies for sports and athletic programs. Topics such as marketing, advertising, public relations strategies, consumer behavior, licensing, and sponsorship will be explored.

KIN 515 - Administration of Sport

3 Credit(s)

This course is designed to teach students the important principles, concepts, research, and theories of managing a sport organization. Students will develop the ability to apply the management principles to interscholastic, intercollegiate and professional and Olympic sports. Students will learn the fundamental principles such as: organizational development, marketing, human resources, strategic planning, sport culture, media relations, fundraising, event management, and leadership as it relates to sport.

Prerequisite(s):

BUS 500

BUS 520 - Managerial Accounting

3 Credit(s)

This course provides a review of financial reporting standards and statements and analysis of those financial statements. Managerial accounting principles will be explored as well as budgeting, cost allocation, accumulation, cost behavior, and relevant costs; revenues are approached from a managers' perspective. Prerequisite: undergraduate accounting course with a grade of C or higher.

KIN 525 - Facilities/Event Management

3 Credit(s)

This course introduces graduate students to the discipline of facility and event management as they relate to the sport, recreation, and leisure industries. Key topics will include planning, designing, managing, scheduling, maintaining, and supervising sport facilities. In addition, students will become familiar with the techniques and strategies needed to plan, promote, manage, and evaluate special sport and sport-related events.

KIN 527 - Sport Law

3 Credit(s)

This course is designed to provide the student with an understanding of the legal issues involved in supervision, management, and conduct in sport and recreation.

KIN 533 - Financing Sport

3 Credit(s)

This course applies financial and economic principles to various professional, collegiate, or high school level sport programs as well as exercise-related settings. The course will provide the student with a practical background regarding the principles of financial management, economic theory, and financial systems for the purpose of planning, administering, reporting, and evaluating the financial performance of a sport organization.

Prerequisite(s):

KIN 515 AND BUS 520

KIN 556 - Strategic Management / Leadership

3 Credit(s)

This course will provide a detailed overview of strategic management and leadership with an emphasis on the management of sport organizations in the commercial, public and not for profit sectors. This course will enable learners to evaluate the relevance of distinctive strategic management tools and consider how these can be applied to support the development of effective sport and sport-related organizations. Students also will examine the principles of effective leadership and reflect on their personal leadership style, the skills and competencies that support the style as well as examining plans for personal and professional development.

Prerequisite(s):

BUS 500 Minimum Grade: C

Capstone Option

KIN 538 - Diversity and Equity in Sport

3 Credit(s)

This course explores aspects of diversity and equity in sport. This course has a two-fold purpose: first, it is designed to provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask questions and think critically about diversity, equity, and inclusion in sport and interaction with society. This course will explore issues around diversity, equity, and inclusion in sport and society.

KIN 596 - Capstone Project

3 Credit(s)

This course is designed to integrate coursework into a capstone experience. It is an applied research course requiring students to utilize the tools and information from all the students coursework into a timely, useful capstone project in cooperation with their professional needs. This course is designed to integrate coursework into a capstone experience. It is an applied research course requiring students to utilize the tools and information from all the students coursework into a timely, useful capstone project in cooperation with their professional needs.

Prerequisite(s):

KIN 503 Minimum Grade: C

AND

KIN 543 Minimum Grade: C

Thesis Option

KIN 591 - Thesis Proposal

3 Credit(s)

This course represents the first part of a two-part culminating experience for the graduate student in Kinesiology. It is intended that his course will provide a practical and thorough experience working through a professionally designed research project. Completion of at least 18 graduate KIN credits are also required prior to course registration.

Prerequisite(s):

KIN 503 Minimum Grade: C

AND

KIN 543 Minimum Grade: C

KIN 593 - Master's Thesis

6 Credit(s)

This course represents the culminating experience for the graduate student in the Master of Science in Exercise Science program. This course will provide a practical and thorough experience working through a professionally designed research project. It will include a written and oral presentation of the thesis proposal, as well as a written and oral defense of the completed Masters thesis. This course will be taken in the last year of the students program at Adams State University.

Prerequisite(s):

KIN 503 Minimum Grade: C
AND

KIN 543 Minimum Grade: C

Total Program Hours: 36

Pre-Physical Therapy

Go to: Department of Kinesiology

Requirements

A physical therapy degree is an advanced degree program offered at selected universities. Some programs are at the master's degree level, but many are at the doctorate level. All require a bachelor's degree with a minimum GPA of 3.0 (average acceptance GPA of 3.5) and a GRE score higher than 1,500 (with a minimum of 500 in each section) for admission.

In addition, most require a minimum number of hours working with a physical therapist. The bachelor's degree may be in any major, but a set of core courses in the sciences and other disciplines is required. Often, a list of recommended courses is suggested. Students must check with the schools to which they will apply for specific requirements, preferably early in their undergraduate career, because of the wide diversity of requirements. This will facilitate scheduling of the required courses along with major and Undergraduate General Education Requirements.

Core Science and Math Courses Required for Many Programs Include

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 101L - Introductory Biology Lab

0 Credit(s)

Introductory Biology is a one-semester laboratory course designed to acquaint the non-major with a broad overview of

the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

BIOL 205 - Human Anatomy and Physiology I

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The integumentary, skeletal, muscular, and nervous systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Test - Minimum Score: 3 **OR** MATH 97 Minimum Grade: S or S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T and SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18 **OR** ENG 96 Minimum Grade: S or T

BIOL 206 - Human Anatomy and Physiology II

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The digestive, respiratory, circulatory, urinary, endocrine, and reproductive systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL 205 Minimum Grade: C- or T

OR

BIOL 210 Minimum Grade: C- or T

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 226 - College Physics II

5 Credit(s)

The second course of a two-semester lecture-laboratory sequence introducing the fundamental principles of physics. In the second semester, students will be introduced to the areas of electricity, electric circuits, optics, and topics in modern physics. Conceptual understanding as well as problem-solving techniques will be emphasized in the lecture. The laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture.

Prerequisite(s):

PHYS 225 Minimum Grade: C- OR T

Other Courses That May Be Required or Recommended

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

PSYC 204 - Child Development

3 Credit(s)

The goal of this course is to examine the interaction of heredity and environment on human development from conception through pre-adolescence. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Some topics include the birth process, early cognitive and language development, gender socialization, the impact of parenting styles, and moral reasoning.

Prerequisite(s):

PSYC 101 Minimum Grade: C or T

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

PSYC 205 - Adolescent and Adult Development

3 Credit(s)

This course continues the study of life-span development from adolescence through old age and death. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Topics include identity formation, sexual orientation, marriage, models of aging, changes in cognition, social developments, and coping with old age.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 230 - Psychology of Mental Health

3 Credit(s)

The purpose of this course is to provide students with the historical and social background necessary to understand mental health issues. Students will examine the psychodynamic, behavioral, and cognitive approaches related to the development and treatment of mental disorders and their classifications. Topics will include schizophrenia, depression, bipolar, and personality disorders.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

CHEM 321 - Organic Chemistry

4 Credit(s)

A study of the relationship between structure and reactivity of carbon-containing compounds.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 321L

CHEM 321L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 321. Laboratory time will be divided among techniques, preparation, and mechanistic studies.

Co-requisite(s): CHEM 321

KIN 329 - Exercise Physiology

3 Credit(s)

This course presents an introduction and overview of the physiological bases of physical education, sport, and athletics. The effects of exercise on the various systems will be considered. Practical application of exercise science to physical fitness and athletic performance will be emphasized.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T

OR

BIOL 205 Minimum Grade: C- OR T

Co-requisite(s): KIN-329L

KIN 340 - Kinesiology

3 Credit(s)

This course focuses on the nature of human movement as influenced by those motor factors, anatomical factors, and mechanical principles that apply at rest and in motion.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

AND

KIN 329 Minimum Grade: C- OR T

AND

KIN 329L Minimum Grade: C- OR T

CHEM 401 - Biochemistry

3 Credit(s)

A study of structural biochemistry. Course begins with a review of water, the lipophilic environment, noncovalent bonding, and bioenergetics. Topics include amino acids, peptides, proteins, nucleic acids, carbohydrates, and lipids. Enzymes are discussed with emphasis on mechanism and kinetics.

Prerequisite(s):

CHEM 322 Minimum Grade: C- OR T

Co-requisite(s): CHEM 401L

CHEM 401L - Biochemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-401. Laboratory time will be spent learning protein purification techniques and doing independent project work.

Co-requisite(s): CHEM-401

Note

Most schools require General Chemistry but some will allow CHEM 111 and CHEM 112 - Introductory Chemistry. MATH 106 and MATH 107 are pre- or co-requisites for General Chemistry and College Physics. A sufficiently high

score on the mathematics portion of the ACT or SAT may waive these particular math requirements, but you need to take one math course as part of the Undergraduate General Education Requirements.

Graduate Certificate in Diversity, Equity, and Inclusion in Sport

Go to: Kinesiology

This certificate, offered through the Kinesiology Department, is a 15-credit hour certification that will aid students in being able to better incorporate DEI measures into their respective professions.

Required Courses

KIN 502 - Women, Sport, and Society

3 Credit(s)

This course will explore how women have been involved in sports and athletics, how they have fought to claim recognition and legitimacy among historically male dominated settings, and how they continue to shape sports and the role of women in society. We will explore a wide variety of topics in society related to women in sports including historical influences, equitable access, characteristics of female sport participation, sport opportunities, and sport leadership. Topics will include Title IX, female bodies and physiology, sport diversity, gender identity, women's sport and aging, disabilities, sport and sexual violence, media and women's portrayal in sports, competitive sports in high school, college, and professional leagues, and marketing women's sports.

KIN 515 - Administration of Sport

3 Credit(s)

This course is designed to teach students the important principles, concepts, research, and theories of managing a sport organization. Students will develop the ability to apply the management principles to interscholastic, intercollegiate and professional and Olympic sports. Students will learn the fundamental principles such as: organizational development, marketing, human resources, strategic planning, sport culture, media relations, fundraising, event management, and leadership as it relates to sport.

Prerequisite(s):

BUS 500

KIN 538 - Diversity and Equity in Sport

3 Credit(s)

This course explores aspects of diversity and equity in sport. This course has a two-fold purpose: first, it is designed to provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask questions and think critically about diversity, equity, and inclusion in sport and interaction with society. This course will explore issues around diversity, equity, and inclusion in sport and society.

KIN 556 - Strategic Management / Leadership

3 Credit(s)

This course will provide a detailed overview of strategic management and leadership with an emphasis on the management of sport organizations in the commercial, public and not for profit sectors. This course will enable learners to evaluate the relevance of distinctive strategic management tools and consider how these can be applied to support the development of effective sport and sport-related organizations. Students also will examine the principles of effective leadership and reflect on their personal leadership style, the skills and competencies that support the style as well as examining plans for personal and professional development.

Prerequisite(s):

BUS 500 Minimum Grade: C

KIN 587 - Diversity, Equity, and Inclusion in Sport Capstone

3 Credit(s)

The capstone is designed to provide a cumulative experience for students who are completing the Diversity, Equity, & Inclusion (DEI) in Sport certification through the School of Kinesiology & Health Sciences. The capstone provides graduate students an opportunity to integrate the content they've learned in the DEI-related Kinesiology (KIN) prerequisite classes into their anticipated professions post-graduation. More specifically, students will further learn from minorities' lived experiences while being challenged to consider how such lived experiences should influence how the student manages themselves in professional and personal matters with the intent to be more equitable and inclusive of all bodies in their professional and personal lives.

Minor in Coaching

Go to: Department of Kinesiology

The coaching minor in Kinesiology is designed for those who are not majoring in Kinesiology but would like to coach at the amateur level, including elementary, junior high, secondary, or post-secondary levels.

Degree Requirements

A minor in coaching consists of the following (Total 18 hours):

KIN 302 - Sport Psychology

3 Credit(s)

Sport psychology is primarily concerned with the interaction between psychological variables and participation in sport and exercise. This course will review this interaction by addressing variables that affect the individual athlete, influence sport and exercise environments, shape group processes, enhance health and wellbeing, improve performance, and facilitate psychological growth and development in sport participants from diverse populations.

KIN 309 - Care / Prevention of Athletic Injuries

3 Credit(s)

The course will focus on the care and prevention of athletic injuries, including the evaluation, nature, types, and functions of various rehabilitation programs.

KIN 350 - Methods of Coaching

3 Credit(s)

This course is intended to provide the foundations of coaching for a person who wants to coach at the youth, elementary, high school or college level. Through a series of discussions, readings, and other projects, the potential coach will gain the knowledge and skills required to be an effective coach. This course will address the many roles and duties a coach must accept to provide positive experiences for athletes in sport.

KIN 380 - Diversity, Equity Sport, and Society

3 Credit(s)

This course has a two-fold purpose: first, it is designed to provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask questions and think critically about sport as a part of society. This course will explore issues around diversity, equity and inclusion in sport and society.

KIN 391 - Sport Ethics and Leadership

3 Credit(s)

This course explores the myriad of moral and ethical issues pertaining to athletes, sports, and sport organizations and how these apply to professionals in the field of sport management. The course will also explore leadership theories and philosophies. Current examples of ethical dilemmas in sport and sport management will be presented, and students will explore their personal ethics in relation to these issues.

KIN 480 - Coaching Practicum

3 Credit(s)

In this course, students will gain actual field-based experience in coaching. This course will give the student an opportunity to gain documented experience as a coaching intern, apply the skills developed during his/her undergraduate program, and reflect on his/her experiences.

Prerequisite(s):

KIN 350 Minimum Grade: C- OR T

Note

A coaching practicum is required for the minor. The practicum may be accomplished, with the approval of the department chair, by assisting with an elementary, junior or senior high school program, or with college sports program.

Completion of the practicum will qualify the individual for the Adams State University Coaching Certification. A prerequisite to the practicum is KIN 350 AND at least 10 hours in the coaching minor core.

Minor in Fitness Management

Go to: Department of Kinesiology

Degree Requirements

Required Core:

KIN 205 - Sports and Recreation Management

3 Credit(s)

The Sport and Recreation Management course is designed for students preparing for positions with sport and club teams, community recreation, intercollegiate and high school athletics programs, international sport organizations, national and international amateur sport organizations, or firms specializing in sport. The course is designed to emphasize fundamental knowledge in sport and recreation and will prepare students for various roles in the industry. Through lectures, readings, video, and classroom assignments students will gain an understanding of the sport and recreation industry and how to successfully manage and lead an organization.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

KIN 210 - Sport Communication and Techniques

3 Credit(s)

This course introduces students to the main skills required for sports journalism and public relations, with particular emphasis on writing and public speaking. Students will learn about the historical development and cultural significance of sport and how those have shaped the business of sport. Students will also be introduced to technologies that impact on their abilities to write and disseminate stories and on how those technologies affect the character of messaging.

KIN 305 - Sport Facility Management

3 Credit(s)

This course introduces students to the discipline of facility management as they relate to the sport, recreation, and leisure industries. Key topics will include planning, designing, managing, scheduling, leading, and supervising sport facilities.

Prerequisite(s):

KIN 100 Minimum Grade: C- OR T

AND

BUS 103 Minimum Grade: C- OR T

KIN 390 - Risk Management

3 Credit(s)

This course explores the structure of the legal system, aspects of product liability, negligence, safety, and liability in the sport industry. Students will learn how to develop contracts designed to alleviate responsibility from a practitioner and/or organization from liability due to ordinary negligence. This course also includes discussions and practical applications for establishing a risk management system for facilities and sports programs.

Prerequisite(s):

KIN 120 Minimum Grade: C- OR T

AND

BUS 103 Minimum Grade: C- OR T

KIN 391 - Sport Ethics and Leadership**3 Credit(s)**

This course explores the myriad of moral and ethical issues pertaining to athletes, sports, and sport organizations and how these apply to professionals in the field of sport management. The course will also explore leadership theories and philosophies. Current examples of ethical dilemmas in sport and sport management will be presented, and students will explore their personal ethics in relation to these issues.

KIN 425 - Sport Law**3 Credit(s)**

This course explores the structure of the legal system, aspects of constitutional law, labor and anti-trust law, tort law, product liability, contract law, administrative law, and statutory law applicable to the sport industry.

Prerequisite(s):

KIN 390 Minimum Grade: C- OR T

Total Credits: 18

Minor in Kinesiology

Go to: Kinesiology Department

A minor in Kinesiology is available in consultation with the department chair. It generally consists of 18 hours of core Kinesiology courses. Physical education activity classes cannot be used to fulfill minor requirements.

Outdoor Education and Stewardship

Return to: School of Kinesiology & Health Sciences

Ever wondered what it would be like to work outside for a living? If you like hiking, camping, hunting, fishing, paddling rivers, climbing mountains, or would like to know more about how to get involved in these activities, we can help you turn that into a fulfilling career!

The interdisciplinary approach for the Outdoor Education and Stewardship (OES) degree prepares students to work in a diverse field. Designed to give outdoor professionals flexibility in building their careers, students gain skills in outdoor leadership, management, education, and environmental stewardship. Located within the department of Biology and Earth Sciences, the OES degree deepens students' knowledge of environmental science and humankind's relationship to the land. With its unique emphasis on stewardship, students will be putting their knowledge to practice by engaging in local projects including trail building, habitat and river restoration, and outdoor education for youth across the San Luis Valley. This degree will give you skills and experience complementing your desire to care for and protect wild places.

Course List

All Outdoor Education and Stewardship Courses

Bachelor of Arts in Outdoor Education and Stewardship, Environmental Education Emphasis

Go to: Outdoor Education and Stewardship

Outdoor Education and Stewardship Core Courses (31 Credits)

OES 101 - Outdoor Recreation Essentials

3 Credit(s)

This course is a general introduction to outdoor recreation history, theories, natural resource management, and current trends in the outdoor recreation industry . Students are also introduced to essential outdoor skills for camping and backpacking including trip planning, equipment selection and care, food preparation, Leave No Trace environmental ethics, and risk management. Field trips are required including overnight trips.

OES 200 - Foundations of Outdoor Leadership

3 Credit(s)

This course is an overview of the history, theories, concepts, and practices that constitute outdoor leadership professional practice. Students learn a competency based approach to the development of an outdoor leader. Topics include historical and philosophical foundations of outdoor recreation and education, theories of leadership, judgment and decision making, teaching and facilitation, safety and risk management, and environmental stewardship. Field trips are required.

OES 261 - Outdoor Leadership Expedition

6 Credit(s)

This course is a field immersion experience to develop and practice outdoor leadership. Students participate in a two week backpacking expedition to learn and apply principles and strategies for minimum impact environmental ethics, risk management, teaching, and leadership. Field trips required.

Prerequisite(s):

OES 200 Minimum Grade: C-

KIN 266 - Wilderness First Aid (WFA)

1 Credit(s)

The course is designed to introduce you to the concepts of medical care in a wilderness setting. The course focuses on Basic Life Support skills, minor trauma, selected environmental topics, spine assessment and the ruling out process, allergic and toxic reactions, and "common" medical emergencies.

OES 269 - Observing Nature

3 Credit(s)

Through field experiences both on campus and off, students learn to carefully observe the natural environment, identify local flora and fauna, and keep a naturalists field journal. Meets once a week for 2 hours. Field trips are required.

OES 367 - Experiential Learning and Facilitation

3 Credit(s)

This course explores the intersectionality of various disciplines that have influenced the field of experiential education. Students will consider distinctions between teaching and facilitation, wrestle with the challenges posed by the learning process, investigate the complexities involved in change and conflict, and develop skills for facilitating individual growth and group development. Additionally, students will practice facilitating group games, initiatives, meetings, challenges and other activities that focus on intrapersonal and interpersonal growth and development.

Prerequisite(s):

OES 200 Minimum Grade: C-

OES 370 - Wildland Recreation Management

2 Credit(s)

This course immerses students into the field of recreation ecology. Hands-on experience participating in local stewardship projects with federal and state agencies will be a component of the course. Students will gain knowledge and experience with how agencies and organizations identify recreational impact oriented problems, collect data, prioritize, allocate resources, and collaborate to accomplish conservation and stewardship objectives. Students will practice with professional approaches and strategies for planning and monitoring recreational use. Students are required to participate in a variety of learning experiences in various locations throughout the San Luis Valley.

Co-requisite(s): OES 370L

OES 370L - Wildland Recreation Management Field Lab

1 Credit(s)

This is the field based lab for OES 370. Students will travel off-campus to various sites for field application of course content, meeting with land managers, and conducting research.

Co-requisite(s): OES 370

OES 450 - Program Design and Management

3 Credit(s)

To manage an outdoor program, outdoor leaders must add to their field based competencies and experience specific skill sets for effective oversight, support, and leadership. Program managers are responsible for a variety of critical administrative functions that ultimately lead to the effective delivery and risk management of outdoor programs. Students in this course will begin developing their administrative competencies including program design, risk management, budgeting, permitting, staff training, program assessment, incident response and more.

Prerequisite(s):

OES 200 Minimum Grade: C-

AND

OES 367 Minimum Grade: C-

OES 451 - Outdoor Education and Stewardship Internship**3 Credit(s)**

To enhance and apply program skills, students will complete a 400-hour internship. To receive credit, students must document their hours and complete required internship assignments. Approval of internship by instructor is required.

Prerequisite(s):

OES 450 Minimum Grade: C-

OES 480 - Capstone Seminar in Outdoor Education and Stewardship**3 Credit(s)**

In this course students will complete a signature project that demonstrates the culmination of their program work and experiences. During the course students will also investigate emergent trends, issues, and challenges related to outdoor education and recreation. Students will select a project of interest with the assistance of a faculty member. Project types include curriculum development, program design, original research, or volunteer service project. Students will also finalize and submit their ePortfolio.

Prerequisite(s):

OES 450 Minimum Grade: C-

AND

OES 451 Minimum Grade: C-

Environmental Science Courses (17 Credits)**ENV 101 - Introduction to Environmental Science GT-SC1****4 Credit(s)**

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 212 - Natural Resource Management on Public Lands

3 Credit(s)

This course will examine public lands management from both a theoretical and descriptive perspective. The major political forces affecting public lands, and the specific details of energy policy, forests, rangelands, national parks, and wildlife on public lands are discussed.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

OR

BIOL 330 Minimum Grade: C-

GSCI 307 - Bio-Geography

3 Credit(s)

The course builds upon topics introduced in the introductory physical geography and general biology courses and synthesizes concepts addressed in other upper-division courses dealing with vegetation science, climatology, soil, historical geology, ecology, and evolution to explain patterns and processes influencing past and present distributions of organisms.

Prerequisite(s):

GSCI 109 Minimum Grade: C-
AND

BIOL 209 Minimum Grade: C-

BIOL 314 - Conservation Biology

3 Credit(s)

Conservation biology is the study of how to preserve the world's biological and genetic diversity while maintaining functional ecosystems. The course will explore these issues using an integrated approach with emphasis on identifying ways that wildlife and humans can sustainably coexist.

Prerequisite(s):

BIOL 330 Minimum Grade: C- OR T
OR

GSCI 307 Minimum Grade: C- OR T

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T
AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

People and Culture Requirements (6 Credits)

ENG 420 - Environmental Literature

3 Credit(s)

This course is a survey of environmental literature poetry, fiction, and non-fiction spanning from the beginning of the conservation movement with Thoreau through the modern environmental movement with Carson, and to the present day with a focus on sustainability and the Southwestern United States with attention paid to the environmental impacts on indigenous populations and minority groups and authors, particularly Latinx. Students will analyze, criticize, reflect, and write about the reading, but also reflect upon field visits to farms, ranches, monuments, and parks throughout the region.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

ENVIRONMENTAL EDUCATION EMPHASIS (17 Credits total)

Additional Environmental Science Courses (9 Credits)

A minimum of 1 course from each prefix is required:

BIOL 467 - Wildlife Management

3 Credit(s)

Study of the ecological foundation, historical development, techniques, and current perspectives and challenges in wildlife management. Emphasis will be on the application of scientific management of game and non-game animals, their habitats, and managing human use of wildlife. Course includes three hours of lecture per week and is offered during fall term of even-numbered years. MATH 205 is recommended.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

OR

BIOL 330 Minimum Grade: C- OR T

AND

GSCI 212 Minimum Grade: C- OR T OR

BIOL 468 - Vegetation/Habitat Management

3 Credit(s)

A study of the composition, structure and productivity of vegetation with emphasis on ecological applications in creating and managing wildlife habitat.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

OR

BIOL 330 Minimum Grade: C- OR T

AND

GEOG 212 Minimum Grade: C- OR T

BIOL 469 - Fisheries Management

3 Credit(s)

A study of the ecological foundation, historical development, techniques, and current perspectives and challenges in inland fisheries management. Emphasis will be on the application of scientific management of fishes, their habitats, and managing human use of inland fisheries. Fisheries Management does not include a separate laboratory section, but will include various field trips to give students the opportunity to observe and apply management techniques discussed in class.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BUS 384 - Natural Resources/Water Law

3 Credit(s)

The goal of this course is to provide students with knowledge of the regulatory responsibilities related to agriculture production and operations with respect to natural resources and water. The course will cover federal, state, and local requirements as well as application to agribusiness endeavors.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 211 Minimum Grade: C- OR T

GSCI 201 - Introduction to Cartography and GIS

3 Credit(s)

This course will introduce students to the core concepts of Geographic Information Systems (GIS) and the importance

and relevance of GIS in today's world. Students will learn what GIS is, what it is used for, and how to perform basic and core tasks involving GIS analysis. An objective is to help students develop the ability to think critically about cartographic processes and representations as well as develop their skills in creating maps. Students are expected to have basic computer proficiency prior to enrolling in this course.

GSCI 311 - Climatology

4 Credit(s)

This course examines the global patterns of climate and the processes that shape them. Particular attention is given to climate change mechanisms (past & present), human-induced changes to the climate system, and likely future climates. Field- and computer-based methodology relevant to the field of climatology is also emphasized.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 330 - Nature and Properties of Soils

4 Credit(s)

This course analyzes soils as natural bodies and managed resources, focusing on impacts of landforms, hydrology, nutrients, and organisms on soils. The laboratory includes analysis of soil patterns, methods of sampling, and techniques of determining physical and chemical properties of soils. Course includes three hours of lecture and two hours of laboratory per week.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

GSCI 420 - Remote Sensing

4 Credit(s)

The course considers acquisition and interpretation of remote sensed environmental data, theory and sensors, and manual and computerized interpretation methods.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

AND

GSCI 201 Minimum Grade: C- OR T

GSCI 440 - Groundwater

4 Credit(s)

This course explores the groundwater system and its relationship with surface water systems of rivers, lakes, and oceans.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620 and GSCI 112 Minimum Grade: C- or T

3 Credits from:

Outdoor Skill Electives

OES 122 - Introduction to Canoeing and Stand-up Paddleboard (SUP)

1 Credit(s)

This course is designed to give students a foundation of skills for running non-whitewater rivers in a canoe or Stand-up Paddleboard (SUP). Students will learn basic paddling skills, river reading, equipment selection and use, and rescue techniques.

OES 123 - Introduction to Mountain Biking

1 Credit(s)

This course will provide students the fundamental skills necessary to ride a mountain bike. Participants will go through all of the beginner and intermediate skills required to handle a mountain bike as well as learn how to assess and navigate various terrain.

OES 124 - Introduction to Kayaking

1 Credit(s)

This course is designed to give students the fundamental skills for running class II rivers in a whitewater kayak. Students will learn basic paddling skills, river reading, equipment selection, and rescue techniques.

OES 125 - Winter Recreation Essentials

1 Credit(s)

This course introduces students to the essential knowledge and skills for winter travel and camping. Students will learn

techniques for setting up camp and living outside in the snow giving student's confidence in their ability to enjoy recreation in the winter environment. Field trip is required.

OES 126 - Introduction to Ice Climbing

1 Credit(s)

This course is an introduction to the techniques, concepts, and practices of ice climbing. Students will learn basic skills including proper clothing selection, ice climbing equipment use and maintenance, route selection, and the fundamentals of movement on ice. Field trip required.

Prerequisite(s):

OES 121 Minimum Grade: P

OES 127 - Trail Stewardship

1 Credit(s)

This course is an introduction to the techniques, concepts, and practices of trail stewardship. Participation in a local volunteer trail project will be a primary part of this course.

OES 310 - Snow Mountaineering

1 Credit(s)

This course is an introduction to climbing in the alpine environment. Students learn skills and techniques for travel on snow and in 3rd and 4th class terrain. Field trips are required.

Prerequisite(s):

OES 264 Minimum Grade: C-
AND

OES 265 Minimum Grade: C-
AND

OES 327 Minimum Grade: C-
AND

KIN 266 Minimum Grade: P

2 Credits from:

Outdoor Education and Stewardship Discipline Courses

OES 263 - Mountain Biking

2 Credit(s)

This intermediate level course provides students with an in-depth understanding of riding skills essential for more

advanced riding. This course will cover mountain bike riding techniques, safety and risk management, maintenance, bike packing, and other intermediate to advanced biking skills. Field trips are required.

Prerequisite(s):

OES 123 Minimum Grade: P

OES 264 - Rock Climbing

2 Credit(s)

This course will build upon basic rock climbing skills and introduce a variety of techniques and systems to expand the climbers skill sets. Topics include climber safety, Leave No Trace for climbers, trip and route planning, equipment selection, protection and anchors, lead climbing, rappelling, 3rd and 4th class terrain, transitions, and basic assistance and rescue skills. Field trips are required.

Prerequisite(s):

OES 121 Minimum Grade: P

OES 265 - Ice Climbing

2 Credit(s)

This course will build upon basic ice climbing skills and introduce a variety of techniques and systems to expand the climbers skill sets. Topics include climber safety, Leave No Trace for ice climbers, trip and route planning, equipment selection and maintenance, protection and anchors, following and lead ice, rappelling, 3rd and 4th class terrain, transitions, and basic assistance and rescue skills. Field trips are required.

Prerequisite(s):

OES 126 Minimum Grade: C

OES 270 - Whitewater Kayaking

2 Credit(s)

This course will cover whitewater skills for kayaking for rivers up to class III/IV whitewater. Course includes topics on boater safety, equipment use and care, paddling strokes and maneuvers, reading the river, setup of rapids, rescue skills, planning river trips, planning kayaking trips. Field trips are required.

Prerequisite(s):

OES 124 Minimum Grade: P

OES 330 - Advanced Technical Course

2 Credit(s)

The advanced technical course builds upon a students activity and site management skills. Students will advance their skills in a particular discipline learning more advanced techniques and systems and challenging their abilities. Topics will vary each semester between rock climbing, paddle sports, alpine climbing, canyoneering, bike packing, and ski mountaineering. Instructor approval required. Field Trips Required

Prerequisite(s):

OES 261 Minimum Grade: C-

3 Credits from:

Site Management Courses

OES 262 - Climbing Wall Instructor

1 Credit(s)

The Climbing Wall Instructor Course provides students with an in-depth and standardized understanding of the skills essential to teaching climbing in an indoor setting. It is the first step in a sequential approach to professional climbing instructor development. The course reinforces the importance of teaching technically accurate information and debunks many common climbing myths. The course emphasizes the presentation of sound fundamental skills to climbing gym participants, the formation of risk assessment and risk management skills and basic problem-solving skills such as belay transitions and on wall coaching and assist techniques.

Prerequisite(s):

OES 121 Minimum Grade: C-

OES 327 - Snowpack and Terrain Assessment

3 Credit(s)

This course will introduce students to the complex decision-making required for navigating and recreating in the winter. This course includes topics on proper winter clothing and equipment, equipment use and care, avalanche terrain assessment, snowpack assessment, stability tests, avalanche forecasting, and companion rescue. Field trips are required.

Prerequisite(s):

OES 125 Minimum Grade: P

AND

OES 261 Minimum Grade: C-

OES 331 - Climbing Site Management

3 Credit(s)

This course develops students capabilities as instructors for rock and ice climbing programs. Emphasis is placed on the management of top-rope climbing sites and providing instruction for both rock and ice climbing. The course includes topics on technical systems, assistance and rescue skills, risk management for climbing sites, teaching climbing movement and basic skills, and assessment. Students will practice designing and leading climbing experiences in a variety of locations for rock and ice climbing. Field trips are required.

OES 332 - Paddle Sports Site Mngmnt

3 Credit(s)

This course will cover the management and instruction of whitewater paddling on rivers up to class III. Course includes topics on boater safety, equipment use and care, paddling strokes and maneuvers, reading the river, setup of rapids, rescue skills, planning river trips, designing paddling experiences, and managing clients. Field trips are required.

OES 333 - Outfitter and Guide Site Management

3 Credit(s)

This course will cover the application of program design and management skills to outfitting and guiding for hunting and fishing operations. Course includes content related to guide and client safety, equipment use and care, navigation, weather assessment, emergency response, trip planning and logistics, regulations and permitting, and maximizing client rewards. Field trips are required.

Prerequisite(s):

OES 200 Minimum Grade: C OR T
AND

OES 261 Minimum Grade: C OR T

Required Support Courses for Outdoor Education and Stewardship (9 Credits)

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

Total Credits: 71

Bachelor of Arts in Outdoor Education and Stewardship, Adventure Education Emphasis

Go to: Outdoor Education and Stewardship

Specific courses required for this degree:

Outdoor Education and Stewardship Core Courses (31 Credits)

OES 101 - Outdoor Recreation Essentials

3 Credit(s)

This course is a general introduction to outdoor recreation history, theories, natural resource management, and current trends in the outdoor recreation industry. Students are also introduced to essential outdoor skills for camping and backpacking including trip planning, equipment selection and care, food preparation, Leave No Trace environmental ethics, and risk management. Field trips are required including overnight trips.

OES 200 - Foundations of Outdoor Leadership

3 Credit(s)

This course is an overview of the history, theories, concepts, and practices that constitute outdoor leadership professional practice. Students learn a competency based approach to the development of an outdoor leader. Topics include historical and philosophical foundations of outdoor recreation and education, theories of leadership, judgment and decision making, teaching and facilitation, safety and risk management, and environmental stewardship. Field trips are required.

OES 261 - Outdoor Leadership Expedition

6 Credit(s)

This course is a field immersion experience to develop and practice outdoor leadership. Students participate in a two week backpacking expedition to learn and apply principles and strategies for minimum impact environmental ethics, risk management, teaching, and leadership. Field trips required.

Prerequisite(s):

OES 200 Minimum Grade: C-

KIN 266 - Wilderness First Aid (WFA)

1 Credit(s)

The course is designed to introduce you to the concepts of medical care in a wilderness setting. The course focuses on Basic Life Support skills, minor trauma, selected environmental topics, spine assessment and the ruling out process, allergic and toxic reactions, and "common" medical emergencies.

OES 269 - Observing Nature

3 Credit(s)

Through field experiences both on campus and off, students learn to carefully observe the natural environment, identify local flora and fauna, and keep a naturalists field journal. Meets once a week for 2 hours. Field trips are required.

OES 367 - Experiential Learning and Facilitation

3 Credit(s)

This course explores the intersectionality of various disciplines that have influenced the field of experiential education. Students will consider distinctions between teaching and facilitation, wrestle with the challenges posed by the learning process, investigate the complexities involved in change and conflict, and develop skills for facilitating individual growth and group development. Additionally, students will practice facilitating group games, initiatives, meetings, challenges and other activities that focus on intrapersonal and interpersonal growth and development.

Prerequisite(s):

OES 200 Minimum Grade: C-

OES 370 - Wildland Recreation Management

2 Credit(s)

This course immerses students into the field of recreation ecology. Hands-on experience participating in local stewardship projects with federal and state agencies will be a component of the course. Students will gain knowledge and experience with how agencies and organizations identify recreational impact oriented problems, collect data, prioritize, allocate resources, and collaborate to accomplish conservation and stewardship objectives. Students will practice with professional approaches and strategies for planning and monitoring recreational use. Students are required to participate in a variety of learning experiences in various locations throughout the San Luis Valley.

Co-requisite(s): OES 370L

OES 370L - Wildland Recreation Management Field Lab

1 Credit(s)

This is the field based lab for OES 370. Students will travel off-campus to various sites for field application of course content, meeting with land managers, and conducting research.

Co-requisite(s): OES 370

OES 450 - Program Design and Management

3 Credit(s)

To manage an outdoor program, outdoor leaders must add to their field based competencies and experience specific skill sets for effective oversight, support, and leadership. Program managers are responsible for a variety of critical administrative functions that ultimately lead to the effective delivery and risk management of outdoor programs. Students in this course will begin developing their administrative competencies including program design, risk management, budgeting, permitting, staff training, program assessment, incident response and more.

Prerequisite(s):

OES 200 Minimum Grade: C-

AND

OES 367 Minimum Grade: C-

OES 451 - Outdoor Education and Stewardship Internship

3 Credit(s)

To enhance and apply program skills, students will complete a 400-hour internship. To receive credit, students must document their hours and complete required internship assignments. Approval of internship by instructor is required.

Prerequisite(s):

OES 450 Minimum Grade: C-

OES 480 - Capstone Seminar in Outdoor Education and Stewardship

3 Credit(s)

In this course students will complete a signature project that demonstrates the culmination of their program work and experiences. During the course students will also investigate emergent trends, issues, and challenges related to outdoor

education and recreation. Students will select a project of interest with the assistance of a faculty member. Project types include curriculum development, program design, original research, or volunteer service project. Students will also finalize and submit their ePortfolio.

Prerequisite(s):

OES 450 Minimum Grade: C-
AND

OES 451 Minimum Grade: C-

Environmental Science Courses (17 Credits)

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T
OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 212 - Natural Resource Management on Public Lands

3 Credit(s)

This course will examine public lands management from both a theoretical and descriptive perspective. The major political forces affecting public lands, and the specific details of energy policy, forests, rangelands, national parks, and wildlife on public lands are discussed.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

OR

BIOL 330 Minimum Grade: C-

GSCI 307 - Bio-Geography

3 Credit(s)

The course builds upon topics introduced in the introductory physical geography and general biology courses and synthesizes concepts addressed in other upper-division courses dealing with vegetation science, climatology, soil, historical geology, ecology, and evolution to explain patterns and processes influencing past and present distributions of organisms.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

AND

BIOL 209 Minimum Grade: C-

BIOL 314 - Conservation Biology

3 Credit(s)

Conservation biology is the study of how to preserve the world's biological and genetic diversity while maintaining functional ecosystems. The course will explore these issues using an integrated approach with emphasis on identifying ways that wildlife and humans can sustainably coexist.

Prerequisite(s):

BIOL 330 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T
AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

People and Culture Requirements (6 Credits)

ENG 420 - Environmental Literature

3 Credit(s)

This course is a survey of environmental literature poetry, fiction, and non-fiction spanning from the beginning of the conservation movement with Thoreau through the modern environmental movement with Carson, and to the present day with a focus on sustainability and the Southwestern United States with attention paid to the environmental impacts on indigenous populations and minority groups and authors, particularly Latinx. Students will analyze, criticize, reflect, and write about the reading, but also reflect upon field visits to farms, ranches, monuments, and parks throughout the region.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

ADVENTURE RECREATION EMPHASIS (17 Credits Total)

4 Credits of:

Outdoor Skill Electives

OES 122 - Introduction to Canoeing and Stand-up Paddleboard (SUP)

1 Credit(s)

This course is designed to give students a foundation of skills for running non-whitewater rivers in a canoe or Stand-up Paddleboard (SUP). Students will learn basic paddling skills, river reading, equipment selection and use, and rescue techniques.

OES 123 - Introduction to Mountain Biking

1 Credit(s)

This course will provide students the fundamental skills necessary to ride a mountain bike. Participants will go through all of the beginner and intermediate skills required to handle a mountain bike as well as learn how to assess and navigate various terrain.

OES 124 - Introduction to Kayaking

1 Credit(s)

This course is designed to give students the fundamental skills for running class II rivers in a whitewater kayak. Students will learn basic paddling skills, river reading, equipment selection, and rescue techniques.

OES 125 - Winter Recreation Essentials

1 Credit(s)

This course introduces students to the essential knowledge and skills for winter travel and camping. Students will learn techniques for setting up camp and living outside in the snow giving student's confidence in their ability to enjoy recreation in the winter environment. Field trip is required.

OES 126 - Introduction to Ice Climbing

1 Credit(s)

This course is an introduction to the techniques, concepts, and practices of ice climbing. Students will learn basic skills including proper clothing selection, ice climbing equipment use and maintenance, route selection, and the fundamentals of movement on ice. Field trip required.

Prerequisite(s):

OES 121 Minimum Grade: P

OES 127 - Trail Stewardship

1 Credit(s)

This course is an introduction to the techniques, concepts, and practices of trail stewardship. Participation in a local volunteer trail project will be a primary part of this course.

OES 310 - Snow Mountaineering

1 Credit(s)

This course is an introduction to climbing in the alpine environment. Students learn skills and techniques for travel on snow and in 3rd and 4th class terrain. Field trips are required.

Prerequisite(s):

OES 264 Minimum Grade: C-

AND

OES 265 Minimum Grade: C-

AND

OES 327 Minimum Grade: C-

AND

KIN 266 Minimum Grade: P

6 Credits of:

Outdoor Education and Stewardship Discipline Courses

OES 263 - Mountain Biking

2 Credit(s)

This intermediate level course provides students with an in-depth understanding of riding skills essential for more advanced riding. This course will cover mountain bike riding techniques, safety and risk management, maintenance, bike packing, and other intermediate to advanced biking skills. Field trips are required.

Prerequisite(s):

OES 123 Minimum Grade: P

OES 264 - Rock Climbing

2 Credit(s)

This course will build upon basic rock climbing skills and introduce a variety of techniques and systems to expand the climbers skill sets. Topics include climber safety, Leave No Trace for climbers, trip and route planning, equipment selection, protection and anchors, lead climbing, rappelling, 3rd and 4th class terrain, transitions, and basic assistance and rescue skills. Field trips are required.

Prerequisite(s):

OES 121 Minimum Grade: P

OES 265 - Ice Climbing

2 Credit(s)

This course will build upon basic ice climbing skills and introduce a variety of techniques and systems to expand the climbers skill sets. Topics include climber safety, Leave No Trace for ice climbers, trip and route planning, equipment selection and maintenance, protection and anchors, following and lead ice, rappelling, 3rd and 4th class terrain, transitions, and basic assistance and rescue skills. Field trips are required.

Prerequisite(s):

OES 126 Minimum Grade: C

OES 270 - Whitewater Kayaking

2 Credit(s)

This course will cover whitewater skills for kayaking for rivers up to class III/IV whitewater. Course includes topics on boater safety, equipment use and care, paddling strokes and maneuvers, reading the river, setup of rapids, rescue skills, planning river trips, planning kayaking trips. Field trips are required.

Prerequisite(s):

OES 124 Minimum Grade: P

OES 330 - Advanced Technical Course

2 Credit(s)

The advanced technical course builds upon a students activity and site management skills. Students will advance their skills in a particular discipline learning more advanced techniques and systems and challenging their abilities. Topics will vary each semester between rock climbing, paddle sports, alpine climbing, canyoneering, bike packing, and ski mountaineering. Instructor approval required. Field Trips Required

Prerequisite(s):

OES 261 Minimum Grade: C-

7 Credits of:

Site Management Courses

OES 262 - Climbing Wall Instructor

1 Credit(s)

The Climbing Wall Instructor Course provides students with an in-depth and standardized understanding of the skills essential to teaching climbing in an indoor setting. It is the first step in a sequential approach to professional climbing instructor development. The course reinforces the importance of teaching technically accurate information and debunks many common climbing myths. The course emphasizes the presentation of sound fundamental skills to climbing gym participants, the formation of risk assessment and risk management skills and basic problem-solving skills such as belay transitions and on wall coaching and assist techniques.

Prerequisite(s):

OES 121 Minimum Grade: C-

OES 327 - Snowpack and Terrain Assessment

3 Credit(s)

This course will introduce students to the complex decision-making required for navigating and recreating in the winter. This course includes topics on proper winter clothing and equipment, equipment use and care, avalanche terrain assessment, snowpack assessment, stability tests, avalanche forecasting, and companion rescue. Field trips are required.

Prerequisite(s):

OES 125 Minimum Grade: P

AND

OES 261 Minimum Grade: C-

OES 331 - Climbing Site Management

3 Credit(s)

This course develops students capabilities as instructors for rock and ice climbing programs. Emphasis is placed on the management of top-rope climbing sites and providing instruction for both rock and ice climbing. The course includes topics on technical systems, assistance and rescue skills, risk management for climbing sites, teaching climbing movement and basic skills, and assessment. Students will practice designing and leading climbing experiences in a variety of locations for rock and ice climbing. Field trips are required.

OES 332 - Paddle Sports Site Mngmnt

3 Credit(s)

This course will cover the management and instruction of whitewater paddling on rivers up to class III. Course includes topics on boater safety, equipment use and care, paddling strokes and maneuvers, reading the river, setup of rapids, rescue skills, planning river trips, designing paddling experiences, and managing clients. Field trips are required.

OES 333 - Outfitter and Guide Site Management

3 Credit(s)

This course will cover the application of program design and management skills to outfitting and guiding for hunting and fishing operations. Course includes content related to guide and client safety, equipment use and care, navigation, weather assessment, emergency response, trip planning and logistics, regulations and permitting, and maximizing client rewards. Field trips are required.

Prerequisite(s):

OES 200 Minimum Grade: C OR T

AND

OES 261 Minimum Grade: C OR T

Required Support Courses for Outdoor Education and Stewardship (9 Credits)

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

Completion of Required Certification Course

- Wilderness First Responder

Total Credit Hours: 71

Public Health

Return to: School of Kinesiology & Health Sciences

The program has a goal of emphasizing rural public health and serving diverse and underrepresented populations.

Bachelor of Arts in Public Health

Go to: Public Health

Public Health Core (33 Credits)

The Core Courses make use of courses from across the university: Biology, Business, Healthcare Administration, Nursing, Kinesiology, Sociology, and Psychology:

PBHL 100 - Foundations in Public Health

3 Credit(s)

Foundations in Public Health provides students with an overview of essential issues and components related to the field of public health.

PBHL 200 - Social Determinants of Health

3 Credit(s)

The course provides an overview of the social factors which are known to be the most powerful determinants of population health in modern societies, including income, education, race, gender, and support systems that interact to determine health across the lifespan.

Prerequisite(s):

PBHL 100

KIN 314 - Health Promotion

3 Credit(s)

This course examines the various factors that may influence a healthy society: heredity, environment, health care services, and lifestyle choices.

PSYC 315 - Multicultural Issues

3 Credit(s)

In this course, students will explore various components of a multicultural society and the impact of social and cultural forces on identity development and formation. The processes of acculturation and assimilation will be discussed. Students will also gain insight into their own cultural experiences in a pluralistic society.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

OR

SOC 365 - Race and Ethnicity in the U.S.

3 Credit(s)

This course provides a sociological approach to race and ethnic relations in the U.S. today. This course introduces the basic sociological theories and perspectives related to the study of race and ethnicity, the histories, and present status of different racial and ethnic groups in the United States and raises questions about continuing racial discrimination and

inequality in our society. Issues of defining race, racial identity, interpersonal and institutional discrimination, segregation, and affirmative action (among others) are explored.

NURS 305 - Transcultural Nursing

3 Credit(s)

This course provides a theoretical framework for the delivery of culturally competent nursing care. The course will enable the nurse to navigate through the obstacles that culture can place on the patient/family experience. Through a presentation of the history and theory behind cultural competence in nursing, the course offers key information regarding health beliefs and the impact of culture on both health and illness. Students must be enrolled in the ASU RN to BSN online program.

OR

NURS 350 - Global Health Nursing

3 Credit(s)

The course uses a multidisciplinary perspective to explore global issues affecting personal, community, and international health and development using approaches from health promotion, population health, and primary health care to help frame analyses. Students are exposed to basic perspectives on health policy issues throughout various geographical regions and how they are affected by significant world events. Students must be enrolled in the ASU RN to BSN online program or ADN Dual Enrollment program.

HCA 311 - Health Care Law and Ethics

3 Credit(s)

This course presents an overview of the legal and ethical issues faced by health care consumers, practitioners, and administrators. The course will introduce students to the legal aspects of health care at the federal, state, and local levels. Topics covered will include criminal and civil claims against health care providers, corporate and individual liability, and legal and ethical decision-making, individual liability, and legal and ethical decision-making. HCA 361 Health Care Administration. Instructor permission.

Prerequisite(s):

BUS 211 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

OR

HCA 480 - Health Care Policy

3 Credit(s)

This course is an introduction to health policy. It will focus on how U.S. health policy is developed and will provide students with a general understanding of the policy making process and debates related major U.S. health care legislations.

Prerequisite(s):

HCA 303 Minimum Grade: C- OR T

AND

HCA 305 Minimum Grade: C- OR T

AND

HCA 363 Minimum Grade: C- OR T

PBHL 300 - Rural Public Health

3 Credit(s)

This course will provide an overview of how Public Health systems operate in rural geographical areas. It provides students with a foundational understanding of rural communities. It then explores rural public health systems and policies, health disparities and special populations and concludes with a final section on advancing rural health through assessment, planning, and intervention.

Prerequisite(s):

PBHL 100

PSYC 380 - Health Psychology

3 Credit(s)

Health Psychology examines the psychosocial factors relevant to health. The course emphasis will be on the contribution of psychological theory to the encouragement of health and wellness and prevention of physical illness. Topics include stress management, health and behavior, chronic and life threatening illness, treatment, and evaluation of health-related research. PSYC 211 recommended.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

HCA 402 - Public and Population Health

3 Credit(s)

This course consists of an examination of epidemiological concepts and methods of studying the distribution and determinants of morbidity and mortality in human population. The knowledge and skills acquired should enable one to understand and critically review scientific literature dealing with epidemiology concepts and measures. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

PBHL 498 - Public Health Capstone

3 Credit(s)

The Public Health Capstone course provides students with an opportunity to demonstrate synthesis and application of the cumulative skills in public health in a real-world work setting by developing a needed public health intervention. Students will work closely with an area non-profit or health agency to implement a public health intervention that addresses a need in the organization. They will concurrently work with peers and the course instructor to work through key stages of public health program planning and intervention. This course integrates the students classroom learning into a work environment. The student will work closely with a work based supervisor and instructor to identify a work plan that demonstrates accomplishment of program outcomes and specific Adams Outcomes.

Prerequisite(s):

PBHL 300

Quantitative Methods - 6-7 Credits

Quantitative Methods courses ensure that students are well-versed in statistics and data analysis:

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T

OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

OR

PSYC 211 - Introduction to Statistics Lecture/Lab

4 Credit(s)

In this course, students will develop a working appreciation of statistical concepts and applications as employed in the behavioral sciences. The course presents descriptive and inferential statistics and their applications. The laboratory component of this course gives students an opportunity to develop skills in using statistical software.

Prerequisite(s):

PSYC 101 Minimum Grade: C- or T
AND

MATH 97 Minimum Grade: S-A or S-B or S-C or T

OR

MATH 99 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 121 Minimum Grade: C- or T

OR

MATH 140 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

SOC 311 - Social Statistics

4 Credit(s)

This course presents a general overview of the statistical methods most commonly used in sociology and the social sciences. As a laboratory component, students will become proficient in SPSS, a computer program designed to aid statistical analysis. These skills will enable the student to read popular applications of statistics in the media with a critical eye; assess the use of statistics in the professional sociological literature; and use statistical tools to answer the sociological questions of interest.

Prerequisite(s):

SOC 255 Minimum Grade: C-

AND

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Life Science (7-10 Credits)

Life Science courses in biology and nutrition ensure that students understand the basic tenets of health and the human body:

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 101L - Introductory Biology Lab

0 Credit(s)

Introductory Biology is a one-semester laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

OR

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

Leadership (9-10 Credits)

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- **OR** T

OR

COMM 100 - Public Speaking

3 Credit(s)

Students will learn the theories behind and the techniques of public speaking. Students will compose, videotape, and upload speeches on various topics and various styles for peer and instructor critique. Students will also learn about the various models of public speaking and the fundamentals of communication theory.

OR

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

HCA 303 - Trends and Issues in Health Care

3 Credit(s)

This course is an introductory Health Care Administration course and will expose the student to the industry and its significant elements and trends of the current health care environment.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 316 - Public and Nonprofit Mgmt

3 Credit(s)

This course is designed to examine public and nonprofit management. This type of management is driven by mission and/or executive/legislative directions. It is not about the bottom line or profit. Students will learn both the theory and practice of public and nonprofit management, using the concept case method and service learning opportunities.

OR

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

OR

BUS 362 - Human Resource Management

3 Credit(s)

Analysis of techniques used to organize, motivate, and manage personnel in public or private organizations. Includes

case studies and examines current literature and the current legal environment..

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

Choose 5 Courses of Electives (15 Credits)

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

OR

KIN 301 - Sport and Fitness Nutrition

3 Credit(s)

This course will present a review of basic nutrition. The course will also explore the areas of sport, exercise and fitness nutrition, supplementation, sport drug use and abuse, weight loss diets, eating disorders, weight gain nutrition, body composition, and the metabolic nutritional requirements of various sports and fitness activities.

Prerequisite(s):

KIN-329 Minimum Grade: C- OR T

AND

BIOL-112 Minimum Grade: C- OR T

OR

BIOL-205 Minimum Grade: C- OR T

FOOD 100 - Perspectives on Food

3 Credit(s)

This course is an exploration of the multitude of roles that food plays in the world. Each class will consist of a discussion of food through a different lens, such as culture, history, economy, nutrition, power, medicine, and ecology. The course will be highly discussion based and students will be challenged to explore their own personal relationship with food. Grades will be determined based on class participation, weekly reading reflections, a blog-post, and a food sharing presentation in which you will explore the history, culture and personal meaning of a specific dish.

KIN 120 - Concepts in Wellness

3 Credit(s)

In this course, students will learn about the various dimensions of wellness, assess their own health status, and design interventions to improve personal health through lecture, video, laboratory experiences, and physical activities. This

course will also provide students with the information necessary to make evidence-based decisions regarding personal wellness and to understand health disparities among diverse populations. There is a physical activity component to this course.

FOOD 200 - U.S. Food Systems

3 Credit(s)

This course will provide an overview of the U.S. Food System, including the policy, agricultural, and cultural history that has led us to the food system that we have today. The course will include the following topics: the role of policy in shaping the food system; the history and current state of federal governmental food and agricultural programs; food as an industry (production, processing, distribution, sales, advertising, and consumer behavior). We will explore the implication of our current system for health, communities, and the environment.

PSYC 230 - Psychology of Mental Health

3 Credit(s)

The purpose of this course is to provide students with the historical and social background necessary to understand mental health issues. Students will examine the psychodynamic, behavioral, and cognitive approaches related to the development and treatment of mental disorders and their classifications. Topics will include schizophrenia, depression, bipolar, and personality disorders.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 245 - Brain and Behavior

3 Credit(s)

This course provides students with a basic overview of the biological processes underlying human behavior. This course begins by presenting fundamental nervous system structure and processes and concludes by examining the role of biology in complex behaviors. Clinical case studies are used to illustrate psychological and neurological disorders. Sample topics include evolution and genetics, neural communication, major brain structures and their functions, human brain damage, sleep and dreaming, drug addiction, memory and amnesia, and stress and illness.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

FOOD 250 - Community Food Systems

3 Credit(s)

In this course, students will study local food systems, using the San Luis Valley as a case study for a broader understanding of the role of local food systems in community vitality and health. We will explore: the pathways of food from the farm, to the distributor, to consumer, and finally as waste; inequalities in food access within communities; strategies for creating a resilient and sustainable local food system; and the major players in the local food system. Students will be provided with many examples of organizations using creative solutions to food system problems.

Prerequisite(s):

FOOD 100 Minimum Grade: C-
AND

FOOD 200 Minimum Grade: C-

PSYC 316 - Drugs, Society, and Human Behavior

3 Credit(s)

This course addresses the social, biological, and psychological factors of the major drugs associated with therapeutic and recreational use and abuse. Topics include drug use as a social problem, theories and treatment of addiction, how drugs work, and the detrimental health effects of drug use.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

SPAN 316 - Spanish for Health Professions

3 Credit(s)

Instruction in the special vocabulary, grammatical structures and cultural understanding needed to deal effectively with the Spanish speaking patient/health professional interactions. The student will learn to interact in Spanish with a variety of simulated common everyday patient/health personnel situations.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

PSYC 387 - Psychology of Aging

3 Credit(s)

This course will take the psychological, biological, and sociocultural approaches to adult development and aging. Topics will include successful aging, identity development, relationships, memory and cognition, physical aging, retirement, illness, and dying.

Prerequisite(s):

PSYC 101

SOC 305 - Rural Sociology

3 Credit(s)

The purpose of this course is to introduce some of the social, political, environmental, and economic problems and prospects associated with rural America. Special attention will also be given rural community services and social institutions, with some focus on the San Luis Valley and other parts of rural Colorado.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 320 - Marriages and Families

3 Credit(s)

This course will provide an overview of the family from a sociological perspective. The family is considered to be one of the most private and pervasive institutions in society. All of us have had contact with at least one family, and many of us will be involved in several different families during our lifetime. Our experiences point to the numerous transformations in family life. To obtain a better understanding of these changes, recent sociological research and data on the family will be utilized in this course. In addition to examining the history of the family, the course will study the contemporary family and its diversity. The course will examine traditional marriage/family arrangements and alternative processes of mate selection and family formation. Finally, the course will examine parenting, the relationship between work and family, divorce and reconstituted families.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 370 - Poverty and Wealth

3 Credit(s)

This course examines the historical and socio-cultural factors which influence the creation and maintenance of poverty and wealth. Emphasis will be on structural factors and theoretical explanations of poverty and inequality. This course will also focus on the implications for policy and social programs aimed at poverty and other social class issues. In addition, there will be exploration of systems of power, privilege, and domination that are central to the American social structure. Finally, the issues of empowerment, resistance, and solutions to social inequality will be assessed.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

AND

SOC 251 Minimum Grade: C- OR T

SOC 401 - Self & Society

3 Credit(s)

This course will look at social psychology from a sociological perspective. More specifically, students will utilize the symbolic interactionist theory to examine how identities, selves, social life, and social reality are products of ongoing social interactions.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 419 - Gender and Society

3 Credit(s)

The aim of the course is for students to become familiar with the continuing differences and inequalities between women and men in the contemporary United States, and to begin to explain why and how they occur through a sociological lens. Understanding gender as it relates to other social identities (for example, race, class and sexuality) is an important organizing framework of the course. Students will learn about the gendered arrangements in a variety of social contexts such as education, the media, work and the economy, and the family.

HCA 455 - Health Care Economics

3 Credit(s)

This course will examine health care decision-making and the functioning of health care markets in the U.S. The course is not designed as a pure economics theory course but instead emphasizes how you can frame and analyze various health issues using the principles of economics. By doing so, you will gain a powerful new perspective that will help you understand the decisions made by individuals and organizations in the face of scarce resources. Instructor permission.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

ANTH 460 - Medical Anthropology

3 Credit(s)

This course will explore the cross-cultural significance of health and wellness from an anthropological perspective. We will delve into the complex interplay of biological, psychological, social, environmental, and political-economic processes on the concepts of illness, suffering, and healing. Particular emphasis will be placed on the ethnographic approach to the lived context in which wellness and suffering are experienced, narrated, and addressed.

SOC 470 - Social and Public Programs

3 Credit(s)

This course analyzes the historical development, current content, and adequacy of social welfare policies in the United States. Specific policy areas to be discussed include income maintenance (including social insurance and public assistance), mental health, health care, and aging.

Prerequisite(s):

SOC 352 Minimum Grade: C- OR T

School of Nursing

The School of Nursing is pleased to offer a four-year Bachelor of Science in Nursing degree program.

Faculty

Director

- Professor Kim Chacon

Associate Professors

- Kim Chacon, M.S., R.N.

Assistant Professors

- Fallon Crowther, M.S.N.-Ed.
- Jamie King, M.S.N.

Visiting Assistant Professors

- Morgan Cummons, M.S.N.

Nursing

This program, offered through the School of Nursing, is accredited by CCNE (Commission on Collegiate Nursing Education). Upon completion, new graduates are eligible to take the R.N. license exam.

Nursing Faculty

Course List

All Nursing Courses

Bachelor of Science in Nursing (4-year degree program)

Go to: Nursing

- The B.S.N. degree is a four-year prelicensure degree program. Upon successful completion of the degree, students are eligible to take the R.N. license exam.
- Four-year B.S.N. undergraduate students typically apply for admission with the Nursing Department at the end of their first year and enter the B.S.N. program their sophomore year.

Complete the following Supporting/General Education Courses for Nursing with a Minimum Grade of C

Complete a First-Year Seminar Course

FYS 101 - First Year Seminar

1 to 3 Credit(s)

First-year students launch into the Adams Experience through a First-Year Seminar (FYS) course. FYS will engage students by creating habits for success, learning to navigate college life, and build skills for success. Each FYS will focus on a unique topic that will be the theme of course discussions, experiences, and assignments. FYS will develop academic and social capital and support a successful transition into higher education, instill lifelong learning, and reinforce student persistence.

Complete all Courses

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 205 - Human Anatomy and Physiology I

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The integumentary, skeletal, muscular, and nervous systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Test - Minimum Score: 3 **OR** MATH 97 Minimum Grade: S or S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T and SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18 **OR** ENG 96 Minimum Grade: S or T

BIOL 206 - Human Anatomy and Physiology II

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The digestive, respiratory, circulatory, urinary, endocrine, and reproductive systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL 205 Minimum Grade: C- or T
OR

BIOL 210 Minimum Grade: C- or T

BIOL 215 - Microbiology for Health Sciences

4 Credit(s)

A lecture/laboratory course designed to fulfill requirements for pre-nursing and pre-pharmacy students as a practical introduction to microorganisms, especially bacteria and viruses, and their contribution to human health and disease. Laboratory exercises are designed to provide experience in handling microorganisms, bacterial identification, and other basic principles of microbiology. This course will not fulfill requirements for any of the biology degree tracks. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL-205 Minimum Grade: C- OR T
AND

CHEM-105 Minimum Grade: C- OR T

AND

CHEM-105L Minimum Grade: C- OR T

OR

CHEM-111 Minimum Grade: T OR C-

AND

CHEM-111L Minimum Grade: T OR C-

OR

BIOL-209 Minimum Grade: C- OR T

AND

BIOL-210 Minimum Grade: C- OR T

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T

OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

PSYC 233 - Lifespan Dev for Nurses

3 Credit(s)

This is a foundational course for nursing students in human growth and development. The goal of this course is to examine the interaction of heredity and environment on biological, cognitive, and social development from conception to death.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

Complete 1 of the Following Statistics Courses

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T

OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

PSYC 211 - Introduction to Statistics Lecture/Lab

4 Credit(s)

In this course, students will develop a working appreciation of statistical concepts and applications as employed in the behavioral sciences. The course presents descriptive and inferential statistics and their applications. The laboratory component of this course gives students an opportunity to develop skills in using statistical software.

Prerequisite(s):

PSYC 101 Minimum Grade: C- or T

AND

MATH 97 Minimum Grade: S-A or S-B or S-C or T

OR

MATH 99 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 121 Minimum Grade: C- or T

OR

MATH 140 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Complete 1 of the following Arts and Humanities Courses (GT-AH1, GT-AH2, or GT-AH3)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and

assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T
AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Complete 1 of the following History Courses (GT-HI1)

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Complete 1 of the following Mathematics Courses (GT-MA1)

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T
OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

Completion of Required Nursing Courses

NURS 201 - Math for Nursing

1 Credit(s)

This course is designed to assist the student with becoming very comfortable with drug calculations using dimensional analysis. Topics to be discussed include: basic math review, metric system and medication calculations, reconstituted medications, parenteral medication calculations, reconstituted medications, parental medication calculations, oral and injectable calculations, and medications for infants and children. Student must be enrolled in the ASU four year baccalaureate program and successful completion of all previous level courses.

NURS 202 - Nursing Informatics

1 Credit(s)

This course examines the history of healthcare informatics, current issues, basic informatics concepts and health information management systems. The use of technology to help make decisions and to improve the health status of the individual, family, and community will be emphasized. Students will apply informatics concepts to a current clinical practice setting suggesting methods to use technology to improve patient safety and work effectiveness. The student will also learn to identify gather, process, and manage information/data. Student must be enrolled in the ASU four-year baccalaureate program and successful completion of all previous level courses.

NURS 206 - Pathophysiology

4 Credit(s)

This course provides an overview of pathophysiological processes across the major organ systems. It is divided into two content areas: general concepts and specific disease processes. General concepts include the topics of cellular environment, genetics, stress and disease, immunity, inflammation, and cellular proliferation. Common disease processes from the major organs systems are presented. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 207 - Health Assessment

3 Credit(s)

The course will focus on the theoretical and practical aspects of acquiring data through a client health history and physical examination through the life span. A laboratory portion will consist of demonstration and actual wellness assessment with identification of needs. Students will be responsible for independent clinical health assessments and case studies. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 208 - Pharmacology

4 Credit(s)

The course will provide an in-depth perspective of the pharmacokinetics and pharmacodynamics of medications. The students will learn to consider body weight, age, body composition, and circulatory dynamics when analyzing the drug's effect. Other topics to be included in this course include therapeutic effects, side effects, toxic effects, idiosyncratic reactions, drug tolerance, drug interactions and drug dose response. Discussion will focus on the physiological action and effect of selected drug groups, and factors that will influence the drug actions such as physiological variables, environmental conditions, psychological factors and diet. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 211 - Professional Practice

2 Credit(s)

This course will emphasize an in-depth exploration of the development of health care policy in the United States. The evolution of public and private healthcare insurance and the societal implications of these policies will be analyzed. Students will understand the U.S. healthcare delivery system to determine how social, political, legal, economic policy and regulatory factors affect health disparities. Access to healthcare for the American people will be addressed. Critical thinking skills will be developed to understand future trends and changes affecting healthcare delivery policy and nursing practice. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 309 - Nursing Fundamentals

6 Credit(s)

This course will focus on the nursing process as a strategy for making clinical judgments and implementing care. The student will learn basic concepts in nursing as a framework for future course work. An emphasis will be placed on critical thinking and evidence based application of concepts taught. The lab hours will focus on concepts learned and are the foundation for developing nursing skills. Practice will take place in both the classroom and the simulation lab. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 309C - Nursing Fundamentals Clinical

3 Credit(s)

This course focuses on concepts learned in Nursing Fundamentals and Nursing Fundamentals Lab as a strategy for making clinical judgments and implementing care. Practice will take place in both the actual clinical setting and the simulation lab. The student will learn basic concepts in nursing as a framework for future course work. An emphasis will be placed on critical thinking and evidence based application of concepts taught. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 310 - Medical Surgical Nursing I

4 Credit(s)

Emphasis in this course is on the transition from student to the professional nursing role of the Baccalaureate prepared nurse. This course is a comprehensive study of concepts related to critical thinking, culture, pain and end of life issues. Also considered is substance abuse, fluid, electrolyte and acid-base balance, safety, oxygenation, tissue perfusion, cardiac output. The various interrelationships among systems are highlighted. The application of the nursing process and evidence based criteria will be used in the care of stable adult patients in a clinical setting. The lab hours will focus on concepts learned and are the foundation for developing advanced nursing skills. Practice will take place in both the

classroom and the simulation lab. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 310C - Medical / Surgical Nursing I Clinical

4 Credit(s)

Emphasis in this course is on the transition from student to the professional nursing role of the Baccalaureate prepared nurse. This course focuses on concepts learned in Medical Surgical Nursing I as a strategy for making clinical judgments and implementing care. Practice will take place in both the actual clinical setting and the simulation lab. The student will learn basic concepts in nursing as a framework for future course work. An emphasis will be placed on critical thinking and evidence based application of concepts taught. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 311 - Care of the Older Adult

2 Credit(s)

This course will consider the unique set of principles and body of knowledge and skills necessary to care for the older adult. Students are provided with the theoretical background necessary to understand health system issues affecting older adults; comprehensive assessment of physical, functional, psychosocial, and cognitive capacities; and to consider, in detail, common problems associated with cardiovascular, respiratory, neurological, musculoskeletal, sensory, and genitourinary systems that affect older adults. In addition, principles of continuity of care, rehabilitation, nutritional and pharmacodynamic changes, diversity and ethics will be integrated throughout the course. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 314 - Health Care Ethics

2 Credit(s)

This course will focus on the moral and ethical dimensions of nursing practice and in health care today. Topics to be explored include biomedical technological advances, quality of life, and ethical theories and principles, client advocacy, skill competency, informed consents, advanced directives and nursing accountability. The students will also discuss how values, emotions, faith, spiritual beliefs influence ethical decision-making. The law, culture, gender, generational issues, as well as male and female roles are considered in the setting of an ethical dilemma. A systematic approach to resolving ethical issues and the role of an Ethics Committee as a resource are presented. Discussion will also take place regarding the Nursing Code of Ethics and its effect on nursing practice. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 315 - Rural/Community Health

2 Credit(s)

This course examines the role of the nurse in promoting the health of aggregates, families, and individuals. The concept of community as client is emphasized. The core public health functions of assessment, policy development, and assurance are explored through student involvement in the legislative process, family assessment, community assessment, case management, health teaching, and the investigation of communicable diseases. The provision of nursing care in a rural setting will also be examined.

NURS 315C - Rural / Community Health Clinical

2 Credit(s)

This course will allow students to address the concerns and health needs of the community. In a collaborative effort between the community and ASU, the students will apply knowledge gained through nursing academic coursework to implement a plan for those health concerns. Emphasis will be placed on developing interpersonal skills and achieving social changes that influence health and quality of life. The course includes an extensive clinical practicum within a public health setting with emphasis on nursing in a rural community.

NURS 316 - Nursing Research

2 Credit(s)

This course will provide an introduction to the research process including design and methodology. Interpretation and critique of research findings for use in nursing practice are emphasized. Research questions relevant to clinical practice are identified. This course emphasizes critical analysis of existing research to support data-driven decisions and implementation of evidence-based practice. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 407 - Obstetric Nursing

3 Credit(s)

This course will provide a family-centered approach to professional nursing practice of the childbearing family from pre-conception through postpartum including newborn care. Nursing care of the woman throughout the lifespan will be presented. The impact of psychosocial and cultural values and practices will be explored. Legal and ethical accountability will be integrated throughout the course. The learner will develop specific cognitive and psychomotor competencies which will be demonstrated in an effective performance in both a skills/simulation lab and clinical area. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 407C - Obstetric Nursing Clinical

2 Credit(s)

Emphasis in this course will be on the transition from student to the professional nursing role of the Baccalaureate prepared nurse. This course is the application of skills related to caring for obstetrical and gynecological patients. Critical thinking skills will be learned and applied to visualizing complex problems and interrelationships found in the care of obstetrical and gynecological patients in a clinical setting. The application of the nursing process and evidence based criteria will be used in this process. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 408C - Pediatric Nursing Clinical

2 Credit(s)

This course will apply skills related to caring for pediatric patients across the health continuum. Critical thinking skills will be learned and applied to complex problems and interrelationships found in the care of pediatric patients in the clinical setting. The application of nursing process and evidence based criteria will be used in this process. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 409 - Psychiatric Nursing

2 Credit(s)

The student will explore concepts in promoting and maintaining mental health in the individual, family, group and the community. Mental health assessment, health promotion and roles and responsibilities within the profession of psychiatric nursing will be introduced. This course emphasizes communication and caring through the application of communication skills, the therapeutic relationship and nursing process in the care and treatment of common clinical conditions/disorders in the realm of mental health nursing. The interconnection of medical and mental health symptoms will be addressed. Health care trends related to primary health care, determinants of health and wellness are examined. Concepts of crisis, comfort, anger, hope, loss, power, resiliency and integrity will be introduced. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 409C - Psychiatric Nursing Clinical

2 Credit(s)

This course will allow the student to apply the various concepts learned in NURS-409 and other nursing courses to patients in both acute psychiatric settings and various community settings. Students will incorporate critical thinking, the nursing process and evidence based guidelines for the care of the psychiatric patient. Health and safety needs within the psychiatric setting will be explored. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 414C - Nursing Internship

6 Credit(s)

This course will be an integration of previous nursing and general education coursework. This course will include an intensive content exam review and field experience in an area of nursing interest to the student and comprehensive simulation lab experiences at the end of the course. Critical thinking and evidence based practice will be emphasized and evaluated through theory course content review tests and in the clinical environment by a preceptor. In addition, the simulation environment may be used as a part of evaluation. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 415 - Nursing Management

3 Credit(s)

The focus of this course will be on the theories of nursing management and leadership and their application to work practices. Content will include the basic functions of management: planning, organizing, and directing. Topics such as decision-making, change, budgeting, conflict resolution and personnel issues will be explored. The students will concentrate on critical decision making and formulating independent nursing judgments in complex nursing situations. Content will also focus on supervisory skills and collaboration with other members of the health care team in the structured (hospital or nursing home) or unstructured (community assessments) health care settings. Students must be enrolled in the ASU four year baccalaureate nursing program and successfully complete all previous level courses.

NURS 415C - Nursing Management Clinical

2 Credit(s)

Application of nursing leadership and management principles learned in NURS-415 will be the focus of this course.

Application of concepts learned take place in the clinical setting. Critical thinking and evidence based practice will be emphasized.

NURS 416 - Medical Surgical Nursing II

4 Credit(s)

This course is a comprehensive study of concepts related to problems of the cardiovascular, peripheral vascular, respiratory, hematological, and endocrine systems. Various interrelationships of these concepts will be explored as it concerns stable and unstable adult patients. The application of the nursing process and evidence based criteria will be presented as these processes refer to the care of adult patients. The lab hours will focus on concepts learned and are the foundation for developing advanced nursing skills. Practice will take place both in the classroom and the simulation lab.

NURS 416C - Medical /Surgical Nursing II Clinical

4 Credit(s)

In this course, concepts related to problems of the cardiovascular, peripheral vascular, respiratory, hematological, and endocrine systems will be explored. The various interrelationships among these concepts found in both stable and unstable adult patients in a clinical setting will be emphasized. The application of the nursing process and evidence based criteria will be used in the care of adult patients in both a clinical setting and a simulation lab.

NURS 417A - Service Learning A

0.5 Credit(s)

The Service Learning project will provide the student with a unique opportunity to further develop the nursing role as a responsible and caring professional. In providing service to an agency or aggregate of clients, the ASU nursing student will apply and integrate concepts learned from previous coursework in the arts, sciences, humanities, and nursing in meaningful ways. The Service Learning project will enhance the ASU Nursing Program mission with its focus on cultural diversity, community service, and rural health care. This course introduces the student to community collaboration and selection of a service project.

NURS 417B - Service Learning B

0.5 Credit(s)

The Service Learning project will provide the student with a unique opportunity to further develop the nursing role as a responsible and caring professional. In providing service to an agency or aggregate of clients, the ASU nursing student will apply and integrate concepts learned from previous coursework in the arts, sciences, humanities, and nursing in meaningful ways. The Service Learning project will enhance the ASU Nursing Program mission with its focus on cultural diversity, community service, and rural health care. This course is an ongoing course from NURS 417A. This course will continue the project development established in NURS 417A. The student will research the importance and effectiveness of project selected in the identified community/agency.

Prerequisite(s):

NURS 417A Minimum Grade: C

NURS 417C - Service Learning C

1 Credit(s)

The Service Learning project will provide the student with a unique opportunity to further develop the nursing role as a responsible and caring professional. In providing service to an agency or aggregate of clients, the ASU nursing student will apply and integrate concepts learned from previous coursework in the arts, sciences, humanities, and nursing in meaningful ways. The Service Learning project will enhance the ASU Nursing Program mission with its focus on cultural diversity, community service, and rural health care. The student will use research and supportive evidence gathered in NURS 417B to implement the selected service project. The result of this project will result in a sustained impact for the selected agency or community. In addition, the student will provide a reflection of this experience from project identification, research, development and implementation.

Prerequisite(s):

NURS 417A Minimum Grade: C

AND

NURS 417B Minimum Grade: C

Pre-Nursing Certificate

The Certificate of Completion of Pre-Nursing Prerequisites will allow students to demonstrate that they have successfully completed 51 pre-nursing credit hours successfully with a C or better. Successfully completing prerequisites allows students to be candidates for nursing school selection.

Complete the following Supporting/General Education Courses for Nursing with a Minimum Grade of C

Complete a First-Year Seminar Course

FYS 101 - First Year Seminar

1 to 3 Credit(s)

First-year students launch into the Adams Experience through a First-Year Seminar (FYS) course. FYS will engage students by creating habits for success, learning to navigate college life, and build skills for success. Each FYS will focus on a unique topic that will be the theme of course discussions, experiences, and assignments. FYS will develop academic and social capital and support a successful transition into higher education, instill lifelong learning, and reinforce student persistence.

Complete all Courses

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life

stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 205 - Human Anatomy and Physiology I

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The integumentary, skeletal, muscular, and nervous systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Test - Minimum Score: 3 **OR** MATH 97 Minimum Grade: S or S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T and SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18 **OR** ENG 96 Minimum Grade: S or T

BIOL 206 - Human Anatomy and Physiology II

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The digestive, respiratory, circulatory, urinary, endocrine, and reproductive systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL 205 Minimum Grade: C- or T
OR

BIOL 210 Minimum Grade: C- or T

BIOL 215 - Microbiology for Health Sciences

4 Credit(s)

A lecture/laboratory course designed to fulfill requirements for pre-nursing and pre-pharmacy students as a practical introduction to microorganisms, especially bacteria and viruses, and their contribution to human health and disease. Laboratory exercises are designed to provide experience in handling microorganisms, bacterial identification, and other basic principles of microbiology. This course will not fulfill requirements for any of the biology degree tracks. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL-205 Minimum Grade: C- OR T
AND

CHEM-105 Minimum Grade: C- OR T

AND

CHEM-105L Minimum Grade: C- OR T

OR

CHEM-111 Minimum Grade: T OR C-

AND

CHEM-111L Minimum Grade: T OR C-

OR

BIOL-209 Minimum Grade: C- OR T

AND

BIOL-210 Minimum Grade: C- OR T

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T
OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

PSYC 233 - Lifespan Dev for Nurses

3 Credit(s)

This is a foundational course for nursing students in human growth and development. The goal of this course is to examine the interaction of heredity and environment on biological, cognitive, and social development from conception to death.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

Complete 1 of the Following Statistics Courses

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T
OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

PSYC 211 - Introduction to Statistics Lecture/Lab

4 Credit(s)

In this course, students will develop a working appreciation of statistical concepts and applications as employed in the behavioral sciences. The course presents descriptive and inferential statistics and their applications. The laboratory component of this course gives students an opportunity to develop skills in using statistical software.

Prerequisite(s):

PSYC 101 Minimum Grade: C- or T
AND

MATH 97 Minimum Grade: S-A or S-B or S-C or T

OR

MATH 99 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 121 Minimum Grade: C- or T

OR

MATH 140 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Complete 1 of the following Arts and Humanities Courses (GT-AH1, GT-AH2, or GT-AH3)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic

concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments,

and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Complete 1 of the following History Courses (GT-HI1)

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Complete 1 of the following Mathematics Courses (GT-MA1)

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T
OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

**School of Science, Technology, Engineering and
Math (STEM)**

Director

- **Dr. Benita Brink**

Programs

- Biology
- Chemistry
- Engineering and Computer Science
- Geosciences
- Mathematics

Biology

Return to: School of Science, Technology, Engineering and Math (STEM)

Students may choose from programs in biology that lead to a bachelor's degree and, if elected, pre-professional preparation or secondary teacher licensure for the Colorado standard teaching license in science education.

Students following the Bachelor of Science and Bachelor of Arts degree programs prepare themselves for careers in private industry, natural resource management, or to continue their education in graduate programs and professional schools.

The department facilitates student learning through careful advisement, small classes, and an excellent teaching faculty.

Course List

All Biology Courses

Faculty

Department Chair

- **Dr. Benita Brink**

Professors

- Benita Brink, Ph.D.

Assistant Professors

- David Bertolatus, Ph.D.
- Joy Ferenbaugh, Ph.D.

- Chistopher Schwinghamer, Ph.D.

- Mathew Sharples, Ph.D.

Visiting Associate Professors

- Judith St. John, Ph.D.

Bachelor of Arts in Biology, Liberal Arts Emphasis

Go to: Biology

Core Requirements

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

BIOL 321 - Genetics

3 Credit(s)

A study of Mendelian and molecular genetics of eukaryotes and prokaryotes. Discussions include basic Mendelian principles, meiosis/mitosis, linkage, gene expression, and molecular techniques. Course includes 3 hours of lecture and 1 hour of peer learning activities per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

OR

CHEM-132 Minimum Grade: C- OR T

AND

CHEM-132L Minimum Grade: C- OR T

BIOL 323 - Cellular Biology

3 Credit(s)

The study of higher plant and animal cells and tissues at the biochemical level including: organelle structure, function, and metabolic role; cell growth, differentiation and specialization; and a survey of instrumentation and methodologies for investigating life processes at the biochemical level. Course includes three hours of lecture per week. Concurrent registration in BIOL 321 and BIOL 325 is recommended.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

BIOL 325 - Cellular Biology/Genetics Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with BIOL 321 and BIOL 323. Laboratory exercises in this course are designed to demonstrate, complement, and extend concepts considered in BIOL 321 and BIOL 323. Students will engage in exercises involving a variety of techniques in which data pertinent to both disciplines will be gathered and analyzed. Course includes 3 hours of laboratory per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T

OR

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

AND

CHEM 111L Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 131L Minimum Grade: C- OR T

Co-requisite(s): BIOL 321 BIOL 323

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T
AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

BIOL 332 - Evolution

3 Credit(s)

A study of the history and development of evolutionary theory. Consideration is given to evidence for and mechanisms of evolution from anatomical, developmental, geological, mathematical, and molecular perspectives. Credit or concurrent registration in BIOL 330 is recommended. This course includes 3 hours of lecture per week.

Prerequisite(s):

BIOL 209 Minimum Grade: C- OR T
AND

BIOL 210 Minimum Grade: C- OR T

- Choose two 400-level biology courses **3-4 Credit(s)**

Completion of required support courses

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T

OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will

not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 112 - Introduction to Organic/Biological Chemistry

4 Credit(s)

A study of the fundamental concepts of organic chemistry and biochemistry. Will not satisfy requirements for a chemistry major, minor or pre-professional studies (pre-med etc.) The course is satisfactory for biology majors who take only one year of chemistry, and for HPPE advanced track.

Prerequisite(s):

CHEM 111 Minimum Grade: C- OR T
OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 112L

CHEM 112L - Introduction to Organic/Biological Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 112.

Co-requisite(s): CHEM 112

OR

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

CHEM 321 - Organic Chemistry

4 Credit(s)

A study of the relationship between structure and reactivity of carbon-containing compounds.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 321L

CHEM 321L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 321. Laboratory time will be divided among techniques, preparation, and mechanistic studies.

Co-requisite(s): CHEM 321

Note

For the Bachelor of Arts in Biology, a minor of the student's choice must be completed.

Bachelor of Arts in Biology, Science Education Emphasis with Secondary Teacher Licensure

Go to: Bachelor of Arts, Secondary Education Licensure

Go to: Biology

Core Requirements

Completion of the following required courses:

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- OR BIOL-209 Minimum Grade: T OR BIOL-209 Minimum Grade: C- AND (CHEM-131 Minimum Grade: C- OR CHEM-131 Minimum Grade: T) OR (CHEM-111 Minimum Grade: C- OR CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

BIOL 321 - Genetics

3 Credit(s)

A study of Mendelian and molecular genetics of eukaryotes and prokaryotes. Discussions include basic Mendelian principles, meiosis/mitosis, linkage, gene expression, and molecular techniques. Course includes 3 hours of lecture and 1 hour of peer learning activities per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

OR

CHEM-132 Minimum Grade: C- OR T

AND

CHEM-132L Minimum Grade: C- OR T

BIOL 323 - Cellular Biology

3 Credit(s)

The study of higher plant and animal cells and tissues at the biochemical level including: organelle structure, function, and metabolic role; cell growth, differentiation and specialization; and a survey of instrumentation and methodologies for investigating life processes at the biochemical level. Course includes three hours of lecture per week. Concurrent registration in BIOL 321 and BIOL 325 is recommended.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

BIOL 325 - Cellular Biology/Genetics Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with BIOL 321 and BIOL 323. Laboratory exercises in this course are designed to demonstrate, complement, and extend concepts considered in BIOL 321 and BIOL 323. Students will engage in exercises involving a variety of techniques in which data pertinent to both disciplines will be gathered and analyzed. Course includes 3 hours of laboratory per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

AND

CHEM 111L Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 131L Minimum Grade: C- OR T

Co-requisite(s): BIOL 321 BIOL 323

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

BIOL 332 - Evolution

3 Credit(s)

A study of the history and development of evolutionary theory. Consideration is given to evidence for and mechanisms of evolution from anatomical, developmental, geological, mathematical, and molecular perspectives. Credit or concurrent registration in BIOL 330 is recommended. This course includes 3 hours of lecture per week.

Prerequisite(s):

BIOL 209 Minimum Grade: C- OR T
AND

BIOL 210 Minimum Grade: C- OR T

BIOL 493 - Thesis I

1 Credit(s)

First in a series of two capstone courses for biology majors designed to review and synthesize their biological background. The emphasis is on writing an independent research paper, or formal literature review of a selected topic in biology. Emphasis is on writing as a process and effective peer review. Course includes 2 hours of lecture per week. A minimum of six credit hours of 400- level biology coursework with grades C or better, or permission of the biology department is required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

Plus a Minimum of 4 Credits from the Following

BIOL 417 - Vascular Plant Systematics

4 Credit(s)

A study of vascular plants (tracheophytes), including phylogeny, taxonomy, molecular systematics, reproduction, ecological relationships, identification, collection, and preservation. Course includes 3 hours of lecture and 3 hours of laboratory per week

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 420 - Mycology

4 Credit(s)

A study of the biology of fungi with emphasis on their identification, classification, morphology, development, ecology, and economic significance. Course includes three hours of lecture and three hours of laboratory per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 423 - Plant Physiology

4 Credit(s)

A study of the mechanisms of plant function throughout development from seeds through reproduction. This course includes consideration of metabolism (photosynthesis, respiration, mineral nutrition), water relations, gas exchange, and developmental growth in response to hormones. An integrated laboratory component requires an independently researched project. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 430 - Plant Ecology

4 Credit(s)

A study of the physiological mechanisms underlying plant responses to abiotic constraints. Topics will include the function of plants and plant communities in relation to soils, climate, other plants, animals, and human activity. Course includes 3 hours of lecture and 3 hours of laboratory/field exercises per week. BIOL 417 is recommended.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

Plus a Minimum of Three Credits from the Following

BIOL 440 - Invertebrate Zoology

4 Credit(s)

A survey of the major groups of invertebrate animals from the Protozoa through Chordata with emphasis on anatomy, ecology, evolution, physiology, and taxonomy. Relationships will be demonstrated through study of selected invertebrate types including marine, freshwater, and terrestrial species. Course includes 3 hours of lecture and 3 hours of laboratory per week and is offered during spring term of even-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 460 - Ornithology

3 Credit(s)

An integrated lecture and laboratory course covering the major taxonomic groups of birds, their ecology, evolutionary fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Lecture topics are supplemented with laboratory and field identification. Course includes three hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 461 - Entomology

3 Credit(s)

Biology of insects with emphasis on anatomy, physiology, natural history, evolution, life cycles, and identification of major groups. This course included two hours of lecture and two hours of lab per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 463 - Ichthyology

3 Credit(s)

An integrated lecture and laboratory course covering the major economic groups of fishes, their ecology, evolutionary relationships, fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Course includes three hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 464 - Mammalogy

3 Credit(s)

An integrated lecture and laboratory course covering the major taxonomic groups of mammals, their ecology, evolutionary relationships, fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Course includes 3 hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 471 - Herpetology

3 Credit(s)

An integrated lecture and laboratory course covering the major taxonomic groups of amphibians and reptiles, their ecology, evolutionary relationships, fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Course includes three hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T
AND

BIOL 325 Minimum Grade: C- OR T
AND

BIOL 330 Minimum Grade: C- OR T
AND

BIOL 332 Minimum Grade: C- OR T

Plus a Minimum of Three Credits from the Following

BIOL 404 - Physiological Zoology

3 Credit(s)

Consideration of structural, functional, and behavioral aspects of physiological mechanisms within an ecological context. Adaptations of animals in response to common, changing, and/or extreme environmental stresses will be emphasized at both proximate and ultimate levels of inquiry. This course includes 3 hours of lecture per week and is offered during spring term of odd-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T
AND

BIOL 325 Minimum Grade: C- OR T
AND

BIOL 330 Minimum Grade: C- OR T
AND

BIOL 332 Minimum Grade: C- OR T

BIOL 408 - Developmental Biology

4 Credit(s)

A lecture and laboratory exploration of the principles of cellular differentiation, morphogenesis, and development with emphasis on underlying genetic mechanisms. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 411 - Comparative Anatomy

4 Credit(s)

An integrated lecture/laboratory investigation of the anatomy and functional morphology of the major groups of chordates and vertebrates with emphasis on the comparative method, anatomical changes through evolutionary history, and inferential reconstruction of phyletic evolutionary descent. Course includes 3 hours of lecture and 3 hours of laboratory per week and is offered during fall term of odd-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 448 - Microbiology

4 Credit(s)

The study of bacteria, fungi, protozoans, and viruses with emphasis on their morphology, physiology, and medical and ecological interactions with human populations. Laboratory exercises are designed to provide experience in handling microorganisms, identification of bacteria, isolation of bacteriophages, and other basic principles of microbiology. Course includes 3 hours of lecture and 3 hours of laboratory per week. Chemistry 321/321L and CHEM-322/322L are recommended.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

Completion of Required Support Courses

CHEM 112 - Introduction to Organic/Biological Chemistry

4 Credit(s)

A study of the fundamental concepts of organic chemistry and biochemistry. Will not satisfy requirements for a chemistry major, minor or pre-professional studies (pre-med etc.) The course is satisfactory for biology majors who take only one year of chemistry, and for HPPE advanced track.

Prerequisite(s):

CHEM 111 Minimum Grade: C- OR T
OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 112L

CHEM 112L - Introduction to Organic/Biological Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 112.

Co-requisite(s): CHEM 112

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 226 - College Physics II

5 Credit(s)

The second course of a two-semester lecture-laboratory sequence introducing the fundamental principles of physics. In the second semester, students will be introduced to the areas of electricity, electric circuits, optics, and topics in modern physics. Conceptual understanding as well as problem-solving techniques will be emphasized in the lecture. The laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture.

Prerequisite(s):

PHYS 225 Minimum Grade: C- OR T

Recommended Courses

BIOL 205 - Human Anatomy and Physiology I

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The integumentary, skeletal, muscular, and nervous systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Test - Minimum Score: 3 **OR** MATH 97 Minimum Grade: S or S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T and SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18 **OR** ENG 96 Minimum Grade: S or T

BIOL 206 - Human Anatomy and Physiology II**4 Credit(s)**

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The digestive, respiratory, circulatory, urinary, endocrine, and reproductive systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL 205 Minimum Grade: C- or T

OR

BIOL 210 Minimum Grade: C- or T

BIOL 125 - Nutrition GT-SC2**3 Credit(s)**

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 407 - Comparative Animal Physiology**4 Credit(s)**

A lecture and laboratory course in which physiological principles common to all major animal phyla are discussed. Consideration of function ranges from biochemical to organismal levels and the comparative method is emphasized in the examination of physiological adaptations required to live in a variety of environments. Course includes 3 hours of lecture and 3 hours of laboratory per week and is offered during fall term of even-numbered years. Biochemistry (CHEM-401 and 402) and senior standing are recommended.

Prerequisite(s):

BIOL-321 Minimum Grade: C- OR T

AND

BIOL-323 Minimum Grade: C- OR T

AND

BIOL-325 Minimum Grade: C- OR T

AND

BIOL-330 Minimum Grade: C- OR T

AND

BIOL-332 Minimum Grade: C- OR T

AND

CHEM-321 Minimum Grade: C- OR T

AND

CHEM-321L Minimum Grade: C- OR T

AND

CHEM-322 Minimum Grade: C- OR T

AND

CHEM-322L Minimum Grade: C- OR T

BIOL 448 - Microbiology

4 Credit(s)

The study of bacteria, fungi, protozoans, and viruses with emphasis on their morphology, physiology, and medical and ecological interactions with human populations. Laboratory exercises are designed to provide experience in handling microorganisms, identification of bacteria, isolation of bacteriophages, and other basic principles of microbiology. Course includes 3 hours of lecture and 3 hours of laboratory per week. Chemistry 321/321L and CHEM-322/322L are recommended.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 476 - Molecular Biology

5 Credit(s)

An introduction to the study of nucleic acids, genomes and molecular mechanisms with emphasis on genome organization, gene expression, and the techniques used in the study of molecular biology. Laboratory exercises will include standard methodologies such as restriction mapping, cloning, hybridization, DNA libraries, and PCR. Course includes three hours of lecture and four hours of laboratory per week. Senior standing is recommended.

Prerequisite(s):

BIOL 448 Minimum Grade: C- OR T
OR

CHEM 401 Minimum Grade: C- OR T

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

GSCI 112 - Earth History

4 Credit(s)

Introduction to the geological evolution of the earth through time using basic principles of stratigraphy and paleontology. Laboratory work includes identification and classification of fossils and correlation of sedimentary environments.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T

OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

Plus other courses required by the School of Education

Bachelor of Arts, Secondary Education Licensure

Bachelor of Arts in Elementary Education Licensure, Science Emphasis

Go to: Bachelor of Arts in Elementary Education
Go to: Biology
Go to: School of Science, Technology, Engineering and Math (STEM)

To complete the Science Emphasis for Elementary Education Licensure, complete 15 hours of courses from the sections below by choosing one course from each of the four sections:

Pick One Course from Section One

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L
OR

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430
AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

Pick One Course from Section Two

CHEM 103 - Introduction to Forensic Chemistry GT-SC1

4 Credit(s)

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the

non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

AND

CHEM 103L - Introduction to Forensic Chemistry Lab GT-SC1

0 Credit(s)

Required companion laboratory to CHEM 103.

Co-requisite(s): CHEM 103

OR

CHEM 104 - Chemistry in Context GT-SC2

3 Credit(s)

This course is designed to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and in significant issues facing science, technology, and society.

OR

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

AND

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

OR

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

AND

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

Pick One Course from Section Three

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

Pick One Course from Section Four

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2

3 Credit(s)

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

OR

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-

OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

Plus Additional Elementary Education Licensure Requirements from the School of Education

Bachelor of Arts in Elementary Education

Bachelor of Science in Biology, Cellular and Molecular Biology Emphasis

Go to: Biology

Core Requirements

Completion of the following required courses:

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

BIOL 321 - Genetics

3 Credit(s)

A study of Mendelian and molecular genetics of eukaryotes and prokaryotes. Discussions include basic Mendelian principles, meiosis/mitosis, linkage, gene expression, and molecular techniques. Course includes 3 hours of lecture and 1 hour of peer learning activities per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

OR

CHEM-132 Minimum Grade: C- OR T

AND

CHEM-132L Minimum Grade: C- OR T

BIOL 323 - Cellular Biology

3 Credit(s)

The study of higher plant and animal cells and tissues at the biochemical level including: organelle structure, function, and metabolic role; cell growth, differentiation and specialization; and a survey of instrumentation and methodologies for investigating life processes at the biochemical level. Course includes three hours of lecture per week. Concurrent

registration in BIOL 321 and BIOL 325 is recommended.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

BIOL 325 - Cellular Biology/Genetics Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with BIOL 321 and BIOL 323. Laboratory exercises in this course are designed to demonstrate, complement, and extend concepts considered in BIOL 321 and BIOL 323.

Students will engage in exercises involving a variety of techniques in which data pertinent to both disciplines will be gathered and analyzed. Course includes 3 hours of laboratory per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

AND

CHEM 111L Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 131L Minimum Grade: C- OR T

Co-requisite(s): BIOL 321 BIOL 323

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

BIOL 332 - Evolution

3 Credit(s)

A study of the history and development of evolutionary theory. Consideration is given to evidence for and mechanisms of evolution from anatomical, developmental, geological, mathematical, and molecular perspectives. Credit or concurrent registration in BIOL 330 is recommended. This course includes 3 hours of lecture per week.

Prerequisite(s):

BIOL 209 Minimum Grade: C- OR T

AND

BIOL 210 Minimum Grade: C- OR T

BIOL 448 - Microbiology

4 Credit(s)

The study of bacteria, fungi, protozoans, and viruses with emphasis on their morphology, physiology, and medical and ecological interactions with human populations. Laboratory exercises are designed to provide experience in handling microorganisms, identification of bacteria, isolation of bacteriophages, and other basic principles of microbiology. Course includes 3 hours of lecture and 3 hours of laboratory per week. Chemistry 321/321L and CHEM-322/322L are recommended.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 476 - Molecular Biology

5 Credit(s)

An introduction to the study of nucleic acids, genomes and molecular mechanisms with emphasis on genome organization, gene expression, and the techniques used in the study of molecular biology. Laboratory exercises will include standard methodologies such as restriction mapping, cloning, hybridization, DNA libraries, and PCR. Course includes three hours of lecture and four hours of laboratory per week. Senior standing is recommended.

Prerequisite(s):

BIOL 448 Minimum Grade: C- OR T
OR

CHEM 401 Minimum Grade: C- OR T

BIOL 477 - Genomics and Bioinformatics

4 Credit(s)

This course is designed to provide students with an in-depth understanding of comparative and functional genomics and practice using genomics and bioinformatics tools. Topics discussed include structure and anatomy of DNA elements, sequencing and other methods used in decoding DNA, genes, and entire genomes, gene expression profiling, gene annotation, homology, clusters of ortholog genes, protein structure function, high throughput functional assays, and experimental perturbation of genomes for medical purposes. Examples presented in the course illustrate the role of functional genomics in drug design, gene discovery, and in designing individual therapies for a variety of diseases and disorders. Laboratory exercises will give students experience in handling and interpreting biological data using various

computational methods.

Prerequisite(s):

CHEM 401 Minimum Grade: C- OR T
AND

BIOL 476 Minimum Grade: C- OR T

BIOL 493 - Thesis I

1 Credit(s)

First in a series of two capstone courses for biology majors designed to review and synthesize their biological background. The emphasis is on writing an independent research paper, or formal literature review of a selected topic in biology. Emphasis is on writing as a process and effective peer review. Course includes 2 hours of lecture per week. A minimum of six credit hours of 400- level biology coursework with grades C or better, or permission of the biology department is required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 494 - Thesis II

1 Credit(s)

Second in a series of two capstone courses for biology designed to review and synthesize their biological background. The emphasis is on developing oral presentation skills. Students will prepare and deliver several short oral presentations as well as one formal seminar on a biological topic. Course includes two hours of lecture per week.

Prerequisite(s):

BIOL 493 Minimum Grade: C- OR T

Plus a Minimum of Seven Credits from the Following

BIOL 407 - Comparative Animal Physiology

4 Credit(s)

A lecture and laboratory course in which physiological principles common to all major animal phyla are discussed. Consideration of function ranges from biochemical to organismal levels and the comparative method is emphasized in the examination of physiological adaptations required to live in a variety of environments. Course includes 3 hours of lecture and 3 hours of laboratory per week and is offered during fall term of even-numbered years. Biochemistry (CHEM-401 and 402) and senior standing are recommended.

Prerequisite(s):

BIOL-321 Minimum Grade: C- OR T
AND

BIOL-323 Minimum Grade: C- OR T

AND

BIOL-325 Minimum Grade: C- OR T

AND

BIOL-330 Minimum Grade: C- OR T

AND

BIOL-332 Minimum Grade: C- OR T

AND

CHEM-321 Minimum Grade: C- OR T

AND

CHEM-321L Minimum Grade: C- OR T

AND

CHEM-322 Minimum Grade: C- OR T

AND

CHEM-322L Minimum Grade: C- OR T

BIOL 408 - Developmental Biology

4 Credit(s)

A lecture and laboratory exploration of the principles of cellular differentiation, morphogenesis, and development with emphasis on underlying genetic mechanisms. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 411 - Comparative Anatomy

4 Credit(s)

An integrated lecture/laboratory investigation of the anatomy and functional morphology of the major groups of chordates and vertebrates with emphasis on the comparative method, anatomical changes through evolutionary history, and inferential reconstruction of phyletic evolutionary descent. Course includes 3 hours of lecture and 3 hours of laboratory per week and is offered during fall term of odd-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 450 - Immunology

3 Credit(s)

Introduction to the cellular and molecular participants in the immune response. Discussion of the relationship between immune mechanisms and medical problems such as allergy, AIDS, malignancy, infection, and organ transplantation. Course includes 3 hours of lecture per week. Course is offered during spring term of even numbered years.

Prerequisite(s):

BIOL 448 Minimum Grade: C- OR T

BIOL 451 - Endocrinology

3 Credit(s)

The study of the production, regulation, and function of classical hormones and paracrine regulatory molecules. Emphasis will be placed on human endocrinology, but the material will also include discussions of the evolution of

hormone families and comparisons between species. Class activities will include histological study of endocrine tissue, videos of hormonal action, analysis of experiments in journal articles and discussions of medical case histories. Course includes 3 hours of lecture per week and is offered during the fall term of even-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T
AND

BIOL 325 Minimum Grade: C- OR T
AND

BIOL 330 Minimum Grade: C- OR T
AND

BIOL 332 Minimum Grade: C- OR T

Completion of Required Support Courses

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460
OR

SAT Math Section Score - Minimum Score: 500
OR

MATH 99 Minimum Grade: S or T
OR

MATH 106 Minimum Grade: C- or T
OR

MATH 104 Minimum Grade: C- or T
OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

CHEM 321 - Organic Chemistry

4 Credit(s)

A study of the relationship between structure and reactivity of carbon-containing compounds.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 321L

CHEM 321L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 321. Laboratory time will be divided among

techniques, preparation, and mechanistic studies.

Co-requisite(s): CHEM 321

CHEM 322 - Organic Chemistry

4 Credit(s)

A continuation of CHEM 321.

Prerequisite(s):

CHEM 321 Minimum Grade: C- OR T

Co-requisite(s): CHEM 322L

CHEM 322L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-322. Laboratory time will be divided among mechanistic studies, preparation, introductory qualitative analysis, and independent project work.

Co-requisite(s): CHEM-322

CHEM 401 - Biochemistry

3 Credit(s)

A study of structural biochemistry. Course begins with a review of water, the lipophilic environment, noncovalent bonding, and bioenergetics. Topics include amino acids, peptides, proteins, nucleic acids, carbohydrates, and lipids. Enzymes are discussed with emphasis on mechanism and kinetics.

Prerequisite(s):

CHEM 322 Minimum Grade: C- OR T

Co-requisite(s): CHEM 401L

CHEM 401L - Biochemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-401. Laboratory time will be spent learning protein purification techniques and doing independent project work.

Co-requisite(s): CHEM-401

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating

statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 226 - College Physics II

5 Credit(s)

The second course of a two-semester lecture-laboratory sequence introducing the fundamental principles of physics. In the second semester, students will be introduced to the areas of electricity, electric circuits, optics, and topics in modern physics. Conceptual understanding as well as problem-solving techniques will be emphasized in the lecture. The laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture.

Prerequisite(s):

PHYS 225 Minimum Grade: C- OR T

Bachelor of Science in Biology, Integrative Biology Emphasis

Go to: Biology

Core Requirements

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- OR BIOL-209 Minimum Grade: T OR BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- OR CHEM-131 Minimum Grade: T) OR (CHEM-111 Minimum Grade: C- OR CHEM-111 Minimum Grade: C- OR CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

BIOL 321 - Genetics

3 Credit(s)

A study of Mendelian and molecular genetics of eukaryotes and prokaryotes. Discussions include basic Mendelian

principles, meiosis/mitosis, linkage, gene expression, and molecular techniques. Course includes 3 hours of lecture and 1 hour of peer learning activities per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

OR

CHEM-132 Minimum Grade: C- OR T

AND

CHEM-132L Minimum Grade: C- OR T

BIOL 323 - Cellular Biology

3 Credit(s)

The study of higher plant and animal cells and tissues at the biochemical level including: organelle structure, function, and metabolic role; cell growth, differentiation and specialization; and a survey of instrumentation and methodologies for investigating life processes at the biochemical level. Course includes three hours of lecture per week. Concurrent registration in BIOL 321 and BIOL 325 is recommended.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

BIOL 325 - Cellular Biology/Genetics Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with BIOL 321 and BIOL 323. Laboratory exercises in this course are designed to demonstrate, complement, and extend concepts considered in BIOL 321 and BIOL 323. Students will engage in exercises involving a variety of techniques in which data pertinent to both disciplines will be gathered and analyzed. Course includes 3 hours of laboratory per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T

OR

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

AND

CHEM 111L Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 131L Minimum Grade: C- OR T

Co-requisite(s): BIOL 321 BIOL 323

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T
AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

BIOL 332 - Evolution

3 Credit(s)

A study of the history and development of evolutionary theory. Consideration is given to evidence for and mechanisms of evolution from anatomical, developmental, geological, mathematical, and molecular perspectives. Credit or concurrent registration in BIOL 330 is recommended. This course includes 3 hours of lecture per week.

Prerequisite(s):

BIOL 209 Minimum Grade: C- OR T
AND

BIOL 210 Minimum Grade: C- OR T

BIOL 425 - Statistics for Biological Sciences

3 Credit(s)

This course provides an introduction to the statistical methods used in the biological sciences. Topics covered include descriptive statistics, probability distributions, hypothesis testing, regression analysis, and analysis of variance. Students will learn how to apply these methods to real-world biological data using the statistical software program R.

Prerequisite(s):

Completion of all Intermediate Block Biology courses (BIOL 321, BIOL 323, BIOL 325, BIOL 330, BIOL 332) with a minimum grade of C- or T.

AND

Completion of MATH 205 with a minimum grade of C- or T.

Co-requisite(s): MATH 205 with instructor permission.

BIOL 493 - Thesis I**1 Credit(s)**

First in a series of two capstone courses for biology majors designed to review and synthesize their biological background. The emphasis is on writing an independent research paper, or formal literature review of a selected topic in biology. Emphasis is on writing as a process and effective peer review. Course includes 2 hours of lecture per week. A minimum of six credit hours of 400- level biology coursework with grades C or better, or permission of the biology department is required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 494 - Thesis II**1 Credit(s)**

Second in a series of two capstone courses for biology designed to review and synthesize their biological background. The emphasis is on developing oral presentation skills. Students will prepare and deliver several short oral presentations as well as one formal seminar on a biological topic. Course includes two hours of lecture per week.

Prerequisite(s):

BIOL 493 Minimum Grade: C- OR T

Plus 7 Courses Including a Minimum of 2 from each of the Following Sections (Sections A and B)

Section A.

BIOL 404 - Physiological Zoology

3 Credit(s)

Consideration of structural, functional, and behavioral aspects of physiological mechanisms within an ecological context. Adaptations of animals in response to common, changing, and/or extreme environmental stresses will be emphasized at both proximate and ultimate levels of inquiry. This course includes 3 hours of lecture per week and is offered during spring term of odd-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 417 - Vascular Plant Systematics

4 Credit(s)

A study of vascular plants (tracheophytes), including phylogeny, taxonomy, molecular systematics, reproduction, ecological relationships, identification, collection, and preservation. Course includes 3 hours of lecture and 3 hours of laboratory per week

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 420 - Mycology

4 Credit(s)

A study of the biology of fungi with emphasis on their identification, classification, morphology, development, ecology, and economic significance. Course includes three hours of lecture and three hours of laboratory per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 423 - Plant Physiology

4 Credit(s)

A study of the mechanisms of plant function throughout development from seeds through reproduction. This course includes consideration of metabolism (photosynthesis, respiration, mineral nutrition), water relations, gas exchange, and developmental growth in response to hormones. An integrated laboratory component requires an independently researched project. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 430 - Plant Ecology

4 Credit(s)

A study of the physiological mechanisms underlying plant responses to abiotic constraints. Topics will include the

function of plants and plant communities in relation to soils, climate, other plants, animals, and human activity. Course includes 3 hours of lecture and 3 hours of laboratory/field exercises per week. BIOL 417 is recommended.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T
AND

BIOL 325 Minimum Grade: C- OR T
AND

BIOL 330 Minimum Grade: C- OR T
AND

BIOL 332 Minimum Grade: C- OR T

BIOL 440 - Invertebrate Zoology

4 Credit(s)

A survey of the major groups of invertebrate animals from the Protozoa through Chordata with emphasis on anatomy, ecology, evolution, physiology, and taxonomy. Relationships will be demonstrated through study of selected invertebrate types including marine, freshwater, and terrestrial species. Course includes 3 hours of lecture and 3 hours of laboratory per week and is offered during spring term of even-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T
AND

BIOL 325 Minimum Grade: C- OR T
AND

BIOL 330 Minimum Grade: C- OR T
AND

BIOL 332 Minimum Grade: C- OR T

BIOL 460 - Ornithology

3 Credit(s)

An integrated lecture and laboratory course covering the major taxonomic groups of birds, their ecology, evolutionary fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Lecture topics are supplemented with laboratory and field identification. Course includes three hours of lecture per week. Additional

laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 461 - Entomology

3 Credit(s)

Biology of insects with emphasis on anatomy, physiology, natural history, evolution, life cycles, and identification of major groups. This course included two hours of lecture and two hours of lab per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 463 - Ichthyology

3 Credit(s)

An integrated lecture and laboratory course covering the major economic groups of fishes, their ecology, evolutionary relationships, fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Course includes three hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 464 - Mammalogy

3 Credit(s)

An integrated lecture and laboratory course covering the major taxonomic groups of mammals, their ecology, evolutionary relationships, fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Course includes 3 hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 471 - Herpetology

3 Credit(s)

An integrated lecture and laboratory course covering the major taxonomic groups of amphibians and reptiles, their ecology, evolutionary relationships, fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Course includes three hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

Section B.

BIOL 407 - Comparative Animal Physiology

4 Credit(s)

A lecture and laboratory course in which physiological principles common to all major animal phyla are discussed. Consideration of function ranges from biochemical to organismal levels and the comparative method is emphasized in the examination of physiological adaptations required to live in a variety of environments. Course includes 3 hours of lecture and 3 hours of laboratory per week and is offered during fall term of even-numbered years. Biochemistry (CHEM-401 and 402) and senior standing are recommended.

Prerequisite(s):

BIOL-321 Minimum Grade: C- OR T

AND

BIOL-323 Minimum Grade: C- OR T

AND

BIOL-325 Minimum Grade: C- OR T

AND

BIOL-330 Minimum Grade: C- OR T

AND

BIOL-332 Minimum Grade: C- OR T

AND

CHEM-321 Minimum Grade: C- OR T

AND

CHEM-321L Minimum Grade: C- OR T

AND

CHEM-322 Minimum Grade: C- OR T

AND

CHEM-322L Minimum Grade: C- OR T

BIOL 408 - Developmental Biology

4 Credit(s)

A lecture and laboratory exploration of the principles of cellular differentiation, morphogenesis, and development with emphasis on underlying genetic mechanisms. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 411 - Comparative Anatomy

4 Credit(s)

An integrated lecture/laboratory investigation of the anatomy and functional morphology of the major groups of chordates and vertebrates with emphasis on the comparative method, anatomical changes through evolutionary history, and inferential reconstruction of phyletic evolutionary descent. Course includes 3 hours of lecture and 3 hours of laboratory per week and is offered during fall term of odd-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 448 - Microbiology

4 Credit(s)

The study of bacteria, fungi, protozoans, and viruses with emphasis on their morphology, physiology, and medical and ecological interactions with human populations. Laboratory exercises are designed to provide experience in handling microorganisms, identification of bacteria, isolation of bacteriophages, and other basic principles of microbiology. Course includes 3 hours of lecture and 3 hours of laboratory per week. Chemistry 321/321L and CHEM-322/322L are recommended.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 450 - Immunology

3 Credit(s)

Introduction to the cellular and molecular participants in the immune response. Discussion of the relationship between immune mechanisms and medical problems such as allergy, AIDS, malignancy, infection, and organ transplantation. Course includes 3 hours of lecture per week. Course is offered during spring term of even numbered years.

Prerequisite(s):

BIOL 448 Minimum Grade: C- OR T

BIOL 451 - Endocrinology

3 Credit(s)

The study of the production, regulation, and function of classical hormones and paracrine regulatory molecules. Emphasis will be placed on human endocrinology, but the material will also include discussions of the evolution of hormone families and comparisons between species. Class activities will include histological study of endocrine tissue, videos of hormonal action, analysis of experiments in journal articles and discussions of medical case histories. Course includes 3 hours of lecture per week and is offered during the fall term of even-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 466 - Environmental Toxicology

3.0 Credit(s)

This course provides an overview of the interdisciplinary field of environmental toxicology, including introductions to environmental chemistry, biological mechanisms of toxicity, regulatory structures for managing toxic exposures, and social dimensions of pollution. Impacts to both human and wildlife health will be discussed. Many of the concepts covered have direct relevance to pharmacology, medicine, and wildlife management. The format of the course is a mixture of lectures and discussion activities. Examples from the primary literature are used for discussion. The course culminates with an independent research project on an environmental toxicology topic of the student's choosing.

Prerequisite(s):

Completion of all Intermediate Block Biology courses (BIOL 321, BIOL 323, BIOL 325, BIOL 330, BIOL 332) with a minimum grade of C- or T.

BIOL 476 - Molecular Biology

5 Credit(s)

An introduction to the study of nucleic acids, genomes and molecular mechanisms with emphasis on genome organization, gene expression, and the techniques used in the study of molecular biology. Laboratory exercises will include standard methodologies such as restriction mapping, cloning, hybridization, DNA libraries, and PCR. Course includes three hours of lecture and four hours of laboratory per week. Senior standing is recommended.

Prerequisite(s):

BIOL 448 Minimum Grade: C- OR T

OR

CHEM 401 Minimum Grade: C- OR T

BIOL 477 - Genomics and Bioinformatics

4 Credit(s)

This course is designed to provide students with an in-depth understanding of comparative and functional genomics and practice using genomics and bioinformatics tools. Topics discussed include structure and anatomy of DNA elements, sequencing and other methods used in decoding DNA, genes, and entire genomes, gene expression profiling, gene annotation, homology, clusters of ortholog genes, protein structure function, high throughput functional assays, and experimental perturbation of genomes for medical purposes. Examples presented in the course illustrate the role of functional genomics in drug design, gene discovery, and in designing individual therapies for a variety of diseases and disorders. Laboratory exercises will give students experience in handling and interpreting biological data using various

computational methods.

Prerequisite(s):

CHEM 401 Minimum Grade: C- OR T
AND

BIOL 476 Minimum Grade: C- OR T

CHEM 401 - Biochemistry

3 Credit(s)

A study of structural biochemistry. Course begins with a review of water, the lipophilic environment, noncovalent bonding, and bioenergetics. Topics include amino acids, peptides, proteins, nucleic acids, carbohydrates, and lipids. Enzymes are discussed with emphasis on mechanism and kinetics.

Prerequisite(s):

CHEM 322 Minimum Grade: C- OR T

Co-requisite(s): CHEM 401L

Completion of required support courses

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

CHEM 321 - Organic Chemistry

4 Credit(s)

A study of the relationship between structure and reactivity of carbon-containing compounds.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 321L

CHEM 321L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 321. Laboratory time will be divided among techniques, preparation, and mechanistic studies.

Co-requisite(s): CHEM 321

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

Bachelor of Science in Biology, Wildlife Emphasis

Go to: [Biology](#)

Core Requirements

Completion of the following required courses:

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum

Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430
AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

BIOL 321 - Genetics

3 Credit(s)

A study of Mendelian and molecular genetics of eukaryotes and prokaryotes. Discussions include basic Mendelian principles, meiosis/mitosis, linkage, gene expression, and molecular techniques. Course includes 3 hours of lecture and 1 hour of peer learning activities per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- **OR** T
OR

BIOL-210 Minimum Grade: C- **OR** T

AND

BIOL 204 Minimum Grade: C- **OR** T

OR

BIOL-209 Minimum Grade: C- **OR** T

AND

CHEM-111 Minimum Grade: C- **OR** T

AND

CHEM-111L Minimum Grade: C- **OR** T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

OR

CHEM-132 Minimum Grade: C- OR T

AND

CHEM-132L Minimum Grade: C- OR T

BIOL 323 - Cellular Biology

3 Credit(s)

The study of higher plant and animal cells and tissues at the biochemical level including: organelle structure, function, and metabolic role; cell growth, differentiation and specialization; and a survey of instrumentation and methodologies for investigating life processes at the biochemical level. Course includes three hours of lecture per week. Concurrent registration in BIOL 321 and BIOL 325 is recommended.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T

OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

BIOL 325 - Cellular Biology/Genetics Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with BIOL 321 and BIOL 323. Laboratory exercises in this course are designed to demonstrate, complement, and extend concepts considered in BIOL 321 and BIOL 323.

Students will engage in exercises involving a variety of techniques in which data pertinent to both disciplines will be gathered and analyzed. Course includes 3 hours of laboratory per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

AND

CHEM 111L Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 131L Minimum Grade: C- OR T

Co-requisite(s): BIOL 321 BIOL 323

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T
AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

BIOL 332 - Evolution

3 Credit(s)

A study of the history and development of evolutionary theory. Consideration is given to evidence for and mechanisms of evolution from anatomical, developmental, geological, mathematical, and molecular perspectives. Credit or concurrent registration in BIOL 330 is recommended. This course includes 3 hours of lecture per week.

Prerequisite(s):

BIOL 209 Minimum Grade: C- OR T

AND

BIOL 210 Minimum Grade: C- OR T

BIOL 493 - Thesis I

1 Credit(s)

First in a series of two capstone courses for biology majors designed to review and synthesize their biological background. The emphasis is on writing an independent research paper, or formal literature review of a selected topic in biology. Emphasis is on writing as a process and effective peer review. Course includes 2 hours of lecture per week. A minimum of six credit hours of 400- level biology coursework with grades C or better, or permission of the biology department is required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 494 - Thesis II

1 Credit(s)

Second in a series of two capstone courses for biology designed to review and synthesize their biological background. The emphasis is on developing oral presentation skills. Students will prepare and deliver several short oral presentations as well as one formal seminar on a biological topic. Course includes two hours of lecture per week.

Prerequisite(s):

BIOL 493 Minimum Grade: C- OR T

Plus a Minimum of 6 Credits from the Following

BIOL 467 - Wildlife Management

3 Credit(s)

Study of the ecological foundation, historical development, techniques, and current perspectives and challenges in wildlife management. Emphasis will be on the application of scientific management of game and non-game animals, their habitats, and managing human use of wildlife. Course includes three hours of lecture per week and is offered during fall term of even-numbered years. MATH 205 is recommended.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

OR

BIOL 330 Minimum Grade: C- OR T

AND

GSCI 212 Minimum Grade: C- OR T OR

BIOL 468 - Vegetation/Habitat Management

3 Credit(s)

A study of the composition, structure and productivity of vegetation with emphasis on ecological applications in creating and managing wildlife habitat.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

OR

BIOL 330 Minimum Grade: C- OR T

AND

GEOG 212 Minimum Grade: C- OR T

BIOL 469 - Fisheries Management

3 Credit(s)

A study of the ecological foundation, historical development, techniques, and current perspectives and challenges in inland fisheries management. Emphasis will be on the application of scientific management of fishes, their habitats, and managing human use of inland fisheries. Fisheries Management does not include a separate laboratory section, but will include various field trips to give students the opportunity to observe and apply management techniques discussed in class.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

GSCI 212 - Natural Resource Management on Public Lands

3 Credit(s)

This course will examine public lands management from both a theoretical and descriptive perspective. The major political forces affecting public lands, and the specific details of energy policy, forests, rangelands, national parks, and wildlife on public lands are discussed.

Prerequisite(s):

GSCI 109 Minimum Grade: C-
OR

BIOL 330 Minimum Grade: C-

**Plus a Minimum of 2 Courses from Each of the Following Sections
(Sections A, B & C)**

A.

BIOL 460 - Ornithology

3 Credit(s)

An integrated lecture and laboratory course covering the major taxonomic groups of birds, their ecology, evolutionary fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Lecture topics are supplemented with laboratory and field identification. Course includes three hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 461 - Entomology

3 Credit(s)

Biology of insects with emphasis on anatomy, physiology, natural history, evolution, life cycles, and identification of major groups. This course included two hours of lecture and two hours of lab per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 463 - Ichthyology

3 Credit(s)

An integrated lecture and laboratory course covering the major economic groups of fishes, their ecology, evolutionary relationships, fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Course includes three hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 464 - Mammalogy

3 Credit(s)

An integrated lecture and laboratory course covering the major taxonomic groups of mammals, their ecology, evolutionary relationships, fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Course includes 3 hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 471 - Herpetology

3 Credit(s)

An integrated lecture and laboratory course covering the major taxonomic groups of amphibians and reptiles, their ecology, evolutionary relationships, fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Course includes three hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

B.

BIOL 314 - Conservation Biology

3 Credit(s)

Conservation biology is the study of how to preserve the world's biological and genetic diversity while maintaining functional ecosystems. The course will explore these issues using an integrated approach with emphasis on identifying ways that wildlife and humans can sustainably coexist.

Prerequisite(s):

BIOL 330 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

BIOL 404 - Physiological Zoology

3 Credit(s)

Consideration of structural, functional, and behavioral aspects of physiological mechanisms within an ecological context. Adaptations of animals in response to common, changing, and/or extreme environmental stresses will be emphasized at both proximate and ultimate levels of inquiry. This course includes 3 hours of lecture per week and is offered during spring term of odd-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 411 - Comparative Anatomy

4 Credit(s)

An integrated lecture/laboratory investigation of the anatomy and functional morphology of the major groups of chordates and vertebrates with emphasis on the comparative method, anatomical changes through evolutionary history, and inferential reconstruction of phyletic evolutionary descent. Course includes 3 hours of lecture and 3 hours of laboratory per week and is offered during fall term of odd-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 423 - Plant Physiology

4 Credit(s)

A study of the mechanisms of plant function throughout development from seeds through reproduction. This course includes consideration of metabolism (photosynthesis, respiration, mineral nutrition), water relations, gas exchange, and developmental growth in response to hormones. An integrated laboratory component requires an independently researched project. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T
AND

BIOL 325 Minimum Grade: C- OR T
AND

BIOL 330 Minimum Grade: C- OR T
AND

BIOL 332 Minimum Grade: C- OR T

BIOL 440 - Invertebrate Zoology

4 Credit(s)

A survey of the major groups of invertebrate animals from the Protozoa through Chordata with emphasis on anatomy, ecology, evolution, physiology, and taxonomy. Relationships will be demonstrated through study of selected invertebrate types including marine, freshwater, and terrestrial species. Course includes 3 hours of lecture and 3 hours of laboratory per week and is offered during spring term of even-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T
AND

BIOL 325 Minimum Grade: C- OR T
AND

BIOL 330 Minimum Grade: C- OR T
AND

BIOL 332 Minimum Grade: C- OR T

C.

Nine hours of plant-related courses are required for positions with the Federal Government

BIOL 417 - Vascular Plant Systematics

4 Credit(s)

A study of vascular plants (tracheophytes), including phylogeny, taxonomy, molecular systematics, reproduction, ecological relationships, identification, collection, and preservation. Course includes 3 hours of lecture and 3 hours of laboratory per week

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T
AND

BIOL 325 Minimum Grade: C- OR T
AND

BIOL 330 Minimum Grade: C- OR T
AND

BIOL 332 Minimum Grade: C- OR T

BIOL 420 - Mycology

4 Credit(s)

A study of the biology of fungi with emphasis on their identification, classification, morphology, development, ecology, and economic significance. Course includes three hours of lecture and three hours of laboratory per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T
AND

BIOL 325 Minimum Grade: C- OR T
AND

BIOL 330 Minimum Grade: C- OR T
AND

BIOL 332 Minimum Grade: C- OR T

BIOL 430 - Plant Ecology

4 Credit(s)

A study of the physiological mechanisms underlying plant responses to abiotic constraints. Topics will include the function of plants and plant communities in relation to soils, climate, other plants, animals, and human activity. Course includes 3 hours of lecture and 3 hours of laboratory/field exercises per week. BIOL 417 is recommended.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T
AND

BIOL 325 Minimum Grade: C- OR T
AND

BIOL 330 Minimum Grade: C- OR T
AND

BIOL 332 Minimum Grade: C- OR T

Required Support Courses

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460
OR

MATH 97 Minimum Grade: S-A or S-B
OR

MATH 97 Minimum Grade: S-C or S
OR

MATH 99 Minimum Grade: S or S-A
OR

MATH 99 Minimum Grade: S-B or S-C or T
OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 112 - Introduction to Organic/Biological Chemistry

4 Credit(s)

A study of the fundamental concepts of organic chemistry and biochemistry. Will not satisfy requirements for a chemistry major, minor or pre-professional studies (pre-med etc.) The course is satisfactory for biology majors who take only one year of chemistry, and for HPPE advanced track.

Prerequisite(s):

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 112L

CHEM 112L - Introduction to Organic/Biological Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 112.

Co-requisite(s): CHEM 112

GSCI 201 - Introduction to Cartography and GIS

3 Credit(s)

This course will introduce students to the core concepts of Geographic Information Systems (GIS) and the importance and relevance of GIS in today's world. Students will learn what GIS is, what it is used for, and how to perform basic and core tasks involving GIS analysis. An objective is to help students develop the ability to think critically about cartographic processes and representations as well as develop their skills in creating maps. Students are expected to have basic computer proficiency prior to enrolling in this course.

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T
OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

Minor in Biology

Go to: Biology

Degree Requirements

Completion of at least 18 credits selected in consultation with the department chair or completion of the following required courses:

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430
AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

BIOL 321 - Genetics

3 Credit(s)

A study of Mendelian and molecular genetics of eukaryotes and prokaryotes. Discussions include basic Mendelian principles, meiosis/mitosis, linkage, gene expression, and molecular techniques. Course includes 3 hours of lecture and 1 hour of peer learning activities per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

OR

CHEM-132 Minimum Grade: C- OR T

AND

CHEM-132L Minimum Grade: C- OR T

BIOL 323 - Cellular Biology

3 Credit(s)

The study of higher plant and animal cells and tissues at the biochemical level including: organelle structure, function, and metabolic role; cell growth, differentiation and specialization; and a survey of instrumentation and methodologies for investigating life processes at the biochemical level. Course includes three hours of lecture per week. Concurrent

registration in BIOL 321 and BIOL 325 is recommended.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

BIOL 325 - Cellular Biology/Genetics Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with BIOL 321 and BIOL 323. Laboratory exercises in this course are designed to demonstrate, complement, and extend concepts considered in BIOL 321 and BIOL 323.

Students will engage in exercises involving a variety of techniques in which data pertinent to both disciplines will be gathered and analyzed. Course includes 3 hours of laboratory per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

AND

CHEM 111L Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 131L Minimum Grade: C- OR T

Co-requisite(s): BIOL 321 BIOL 323

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

BIOL 332 - Evolution

3 Credit(s)

A study of the history and development of evolutionary theory. Consideration is given to evidence for and mechanisms of evolution from anatomical, developmental, geological, mathematical, and molecular perspectives. Credit or concurrent registration in BIOL 330 is recommended. This course includes 3 hours of lecture per week.

Prerequisite(s):

BIOL 209 Minimum Grade: C- OR T

AND

BIOL 210 Minimum Grade: C- OR T

Chemistry

Return to: School of Science, Technology, Engineering and Math (STEM)

The Chemistry Program offers the following degree programs: Bachelor of Arts degree in chemistry, Bachelor of Arts degree in chemistry (science education), Bachelor of Arts degree in chemistry for allied health professions, and Bachelor of Science degrees in chemistry, biochemistry, and chemical physics. The secondary teacher licensure program qualifies a student for a Colorado standard teaching license in science education. The department prepares chemistry majors for graduate schools, the medical or paramedical arts, industrial and government positions, and teaching.

Faculty

Department Chair

- Dr. Christy Miller

Professors

- Christy Miller, Ph.D.
- Frank Novotny, Ph.D.
- Chris Adams, Ph.D.

Assistant Professors

- Umesh Bhattarai, Ph.D.

Course List

All Chemistry Courses

Bachelor of Arts in Chemistry

Go to: Chemistry

Specific courses required for this degree:

Completion of the following required courses

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

CHEM 321 - Organic Chemistry

4 Credit(s)

A study of the relationship between structure and reactivity of carbon-containing compounds.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 321L

CHEM 321L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 321. Laboratory time will be divided among techniques, preparation, and mechanistic studies.

Co-requisite(s): CHEM 321

CHEM 322 - Organic Chemistry

4 Credit(s)

A continuation of CHEM 321.

Prerequisite(s):

CHEM 321 Minimum Grade: C- OR T

Co-requisite(s): CHEM 322L

CHEM 322L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-322. Laboratory time will be divided among mechanistic studies, preparation, introductory qualitative analysis, and independent project work.

Co-requisite(s): CHEM-322

CHEM 331 - Analytical Chemistry

3 Credit(s)

The theory and application of classical and instrumental quantitative analysis with additional emphasis on the fate and analysis of chemicals in the environment.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T
AND

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): CHEM 331L

CHEM 331L - Analytical Chemistry Lab

2 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-331

Co-requisite(s): CHEM-331

CHEM 332 - Analytical Chemistry

3 Credit(s)

A continuation of CHEM 331 with additional coverage of chemical equilibria and electrochemistry.

Prerequisite(s):

CHEM 331 Minimum Grade: D OR T

Co-requisite(s): CHEM 332L

CHEM 332L - Analytical Chemistry Lab

2 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 332.

Co-requisite(s): CHEM 332

CHEM 431 - Physical Chemistry Lecture/Thermodynamics

3 Credit(s)

Thermodynamics as applied to chemistry and physics. Specific topics include the laws of thermodynamics, thermochemistry, reaction and phase equilibrium, solutions, and electrochemistry. An introduction to chemical kinetics is included.

Prerequisite(s):

CHEM-132 Minimum Grade: C- OR T

AND

MATH-121 Minimum Grade: C- OR T

AND

PHYS-225 Minimum Grade: C- OR T

AND

PHYS-226 Minimum Grade: C- OR T

OR

PHYS-230 Minimum Grade: D OR T

AND

PHYS-231 Minimum Grade: D OR T

AND

PHYS-232 Minimum Grade: D OR T

AND

PHYS-233 Minimum Grade: D OR T

Co-requisite(s): CHEM 433

CHEM 432 - Physical Chemistry Lecture/Quantum Mechanics

3 Credit(s)

Quantum mechanics with applications to atomic structure, bonding, solid state, and spectroscopy. An introduction to kinetic molecular theory of gas, transport properties, and statistical mechanics is included.

Prerequisite(s):

CHEM-132 Minimum Grade: C- OR T

AND

MATH-121 Minimum Grade: C- OR T

AND

PHYS-225 Minimum Grade: C- OR T

AND

PHYS-226 Minimum Grade: C- OR T

OR

PHYS-230 Minimum Grade: D OR T

AND

PHYS-231 Minimum Grade: D OR T

AND

PHYS-232 Minimum Grade: D OR T

AND

PHYS-233 Minimum Grade: D OR T

CHEM 433 - Physical Chemistry Laboratory

2 Credit(s)

The principles of physical chemistry applied in the laboratory.

Prerequisite(s):

CHEM 431 Minimum Grade: D OR T

Co-requisite(s): CHEM 431

CHEM 434 - Physical Chemistry Laboratory

2 Credit(s)

The principles of physical chemistry applied in the laboratory. CHEM-434 includes an independent project.

Prerequisite(s):

CHEM 431 Minimum Grade: D OR T

Co-requisite(s): CHEM 432

CHEM 471 - Chemistry Seminar

1 Credit(s)

Capstone course intended for senior chemistry majors consisting of seminars presented by guest speakers, staff, and students; an assessment exam for seniors; and job placement information. Prerequisite: Completion of sufficient degree requirements to be within three semesters of graduating with a chemistry major.

CHEM 472 - Chemistry Seminar Continuation

1 Credit(s)

A continuation of CHEM 471.

Prerequisite(s):

CHEM 471 Minimum Grade: C- OR T

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1**5 Credit(s)**

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

The following physics sequence

PHYS 225 - College Physics I GT-SC1**5 Credit(s)**

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 226 - College Physics II

5 Credit(s)

The second course of a two-semester lecture-laboratory sequence introducing the fundamental principles of physics. In the second semester, students will be introduced to the areas of electricity, electric circuits, optics, and topics in modern physics. Conceptual understanding as well as problem-solving techniques will be emphasized in the lecture. The laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture.

Prerequisite(s):

PHYS 225 Minimum Grade: C- OR T

OR

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T

AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

The following course combination is recommended

CHEM 334 - Environmental Chemistry

3 Credit(s)

This course is designed to introduce the student to a series of topics including stratospheric chemistry, air pollution, global warming, climate change, renewable energy, pesticides, water pollution, and heavy metal pollution.

Prerequisite(s):

CHEM 331 Minimum Grade: C- OR T

Co-requisite(s): CHEM 334L

CHEM 334L - Environmental Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 334.

Co-requisite(s): CHEM 334

Bachelor of Arts in Chemistry, Allied Health Professions Emphasis

Go to: Chemistry

This degree is not appropriate for those planning a career in chemistry but is intended for students entering professional school in the health professions.

Specific courses required for this degree:

Completion of the Following Required Courses

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

CHEM 321 - Organic Chemistry

4 Credit(s)

A study of the relationship between structure and reactivity of carbon-containing compounds.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 321L

CHEM 321L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 321. Laboratory time will be divided among techniques, preparation, and mechanistic studies.

Co-requisite(s): CHEM 321

CHEM 322 - Organic Chemistry

4 Credit(s)

A continuation of CHEM 321.

Prerequisite(s):

CHEM 321 Minimum Grade: C- OR T

Co-requisite(s): CHEM 322L

CHEM 322L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-322. Laboratory time will be divided among mechanistic studies, preparation, introductory qualitative analysis, and independent project work.

Co-requisite(s): CHEM-322

CHEM 331 - Analytical Chemistry

3 Credit(s)

The theory and application of classical and instrumental quantitative analysis with additional emphasis on the fate and analysis of chemicals in the environment.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T
AND

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): CHEM 331L

CHEM 331L - Analytical Chemistry Lab

2 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-331

Co-requisite(s): CHEM-331

CHEM 332 - Analytical Chemistry

3 Credit(s)

A continuation of CHEM 331 with additional coverage of chemical equilibria and electrochemistry.

Prerequisite(s):

CHEM 331 Minimum Grade: D OR T

Co-requisite(s): CHEM 332L

CHEM 332L - Analytical Chemistry Lab

2 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 332.

Co-requisite(s): CHEM 332

CHEM 401 - Biochemistry

3 Credit(s)

A study of structural biochemistry. Course begins with a review of water, the lipophilic environment, noncovalent bonding, and bioenergetics. Topics include amino acids, peptides, proteins, nucleic acids, carbohydrates, and lipids. Enzymes are discussed with emphasis on mechanism and kinetics.

Prerequisite(s):

CHEM 322 Minimum Grade: C- OR T

Co-requisite(s): CHEM 401L

CHEM 401L - Biochemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-401. Laboratory time will be spent learning protein purification techniques and doing independent project work.

Co-requisite(s): CHEM-401

CHEM 402 - Biochemistry II

3 Credit(s)

A study of biochemical metabolism. Topics include catabolism, anabolism, and metabolic control. Three hours of lecture per week.

Prerequisite(s):

CHEM 401 Minimum Grade: C- OR T

CHEM 471 - Chemistry Seminar

1 Credit(s)

Capstone course intended for senior chemistry majors consisting of seminars presented by guest speakers, staff, and students; an assessment exam for seniors; and job placement information. Prerequisite: Completion of sufficient degree requirements to be within three semesters of graduating with a chemistry major.

CHEM 472 - Chemistry Seminar Continuation

1 Credit(s)

A continuation of CHEM 471.

Prerequisite(s):

CHEM 471 Minimum Grade: C- OR T

Either of the Following Mathematics Sequences

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T
OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T
OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

OR

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

The Following Physics Sequence

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-

OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 226 - College Physics II

5 Credit(s)

The second course of a two-semester lecture-laboratory sequence introducing the fundamental principles of physics. In the second semester, students will be introduced to the areas of electricity, electric circuits, optics, and topics in modern physics. Conceptual understanding as well as problem-solving techniques will be emphasized in the lecture. The laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture.

Prerequisite(s):

PHYS 225 Minimum Grade: C- OR T

OR

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1**1 Credit(s)**

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

Note

A minor in biology is required.

**Bachelor of Arts in Chemistry, Science Education Emphasis
with Secondary Teacher Licensure**

Go to: Bachelor of Arts, Secondary Education Licensure

Go to: Chemistry

The secondary teacher licensure program qualifies a student for a Colorado standard teaching license in science education.

1. Complete the Following Required Courses**BIOL 101 - Introductory Biology GT-SC1****4 Credit(s)**

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups,

and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

CHEM 321 - Organic Chemistry

4 Credit(s)

A study of the relationship between structure and reactivity of carbon-containing compounds.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 321L

CHEM 321L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 321. Laboratory time will be divided among techniques, preparation, and mechanistic studies.

Co-requisite(s): CHEM 321

CHEM 322 - Organic Chemistry

4 Credit(s)

A continuation of CHEM 321.

Prerequisite(s):

CHEM 321 Minimum Grade: C- OR T

Co-requisite(s): CHEM 322L

CHEM 322L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-322. Laboratory time will be divided among mechanistic studies, preparation, introductory qualitative analysis, and independent project work.

Co-requisite(s): CHEM-322

CHEM 331 - Analytical Chemistry

3 Credit(s)

The theory and application of classical and instrumental quantitative analysis with additional emphasis on the fate and analysis of chemicals in the environment.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

AND

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): CHEM 331L

CHEM 331L - Analytical Chemistry Lab

2 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-331

Co-requisite(s): CHEM-331

CHEM 334 - Environmental Chemistry

3 Credit(s)

This course is designed to introduce the student to a series of topics including stratospheric chemistry, air pollution, global warming, climate change, renewable energy, pesticides, water pollution, and heavy metal pollution.

Prerequisite(s):

CHEM 331 Minimum Grade: C- OR T

Co-requisite(s): CHEM 334L

CHEM 334L - Environmental Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 334.

Co-requisite(s): CHEM 334

CHEM 471 - Chemistry Seminar

1 Credit(s)

Capstone course intended for senior chemistry majors consisting of seminars presented by guest speakers, staff, and students; an assessment exam for seniors; and job placement information. Prerequisite: Completion of sufficient degree requirements to be within three semesters of graduating with a chemistry major.

CHEM 472 - Chemistry Seminar Continuation

1 Credit(s)

A continuation of CHEM 471.

Prerequisite(s):

CHEM 471 Minimum Grade: C- OR T

Complete either physics sequence (each one is a year in length)

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 226 - College Physics II

5 Credit(s)

The second course of a two-semester lecture-laboratory sequence introducing the fundamental principles of physics. In the second semester, students will be introduced to the areas of electricity, electric circuits, optics, and topics in modern physics. Conceptual understanding as well as problem-solving techniques will be emphasized in the lecture. The laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture.

Prerequisite(s):

PHYS 225 Minimum Grade: C- OR T
OR

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

The following courses are highly recommended

CHEM 332 - Analytical Chemistry

3 Credit(s)

A continuation of CHEM 331 with additional coverage of chemical equilibria and electrochemistry.

Prerequisite(s):

CHEM 331 Minimum Grade: D OR T

Co-requisite(s): CHEM 332L

CHEM 332L - Analytical Chemistry Lab

2 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 332.

Co-requisite(s): CHEM 332

CHEM 461 - Inorganic Chemistry

3 Credit(s)

Theoretical aspects of inorganic chemistry based upon periodic relationships, symmetry, structure bonding, and reactivities. Offered fall semesters of odd-numbered years.

Prerequisite(s):

CHEM-321 Minimum Grade: C- OR T
AND

CHEM-322 Minimum Grade: C- OR T

OR

CHEM-331 Minimum Grade: C- OR T

AND

CHEM-332 Minimum Grade: C- OR T

Co-requisite(s): CHEM-461L

CHEM 461L - Inorganic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-461. Practices of inorganic chemistry in the laboratory including synthesis and characterization of compounds.

Co-requisite(s): CHEM-461

CHEM 431 - Physical Chemistry Lecture/Thermodynamics

3 Credit(s)

Thermodynamics as applied to chemistry and physics. Specific topics include the laws of thermodynamics, thermochemistry, reaction and phase equilibrium, solutions, and electrochemistry. An introduction to chemical kinetics is included.

Prerequisite(s):

CHEM-132 Minimum Grade: C- OR T
AND

MATH-121 Minimum Grade: C- OR T

AND

PHYS-225 Minimum Grade: C- OR T

AND

PHYS-226 Minimum Grade: C- OR T

OR

PHYS-230 Minimum Grade: D OR T

AND

PHYS-231 Minimum Grade: D OR T

AND

PHYS-232 Minimum Grade: D OR T

AND

PHYS-233 Minimum Grade: D OR T

Co-requisite(s): CHEM 433

2. Complete the secondary teacher licensure requirements

Bachelor of Arts, Secondary Education Licensure

Bachelor of Arts in Elementary Education Licensure, Chemistry Minor

Go to: Bachelor of Arts in Elementary Education

Go to: Chemistry

Eighteen hours selected in consultation with the coordinator of the program. Either CHEM 111 or CHEM 131 may be selected but not both courses.

Plus Additional Elementary Education Licensure Requirements from the School of Education

Bachelor of Arts in Elementary Education

Bachelor of Science in Biochemistry

Go to: Chemistry

Specific courses required for this degree:

Completion of the Following Required Courses

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

CHEM 321 - Organic Chemistry

4 Credit(s)

A study of the relationship between structure and reactivity of carbon-containing compounds.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 321L

CHEM 321L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 321. Laboratory time will be divided among techniques, preparation, and mechanistic studies.

Co-requisite(s): CHEM 321

CHEM 322 - Organic Chemistry

4 Credit(s)

A continuation of CHEM 321.

Prerequisite(s):

CHEM 321 Minimum Grade: C- OR T

Co-requisite(s): CHEM 322L

CHEM 322L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-322. Laboratory time will be divided among mechanistic studies, preparation, introductory qualitative analysis, and independent project work.

Co-requisite(s): CHEM-322

CHEM 331 - Analytical Chemistry

3 Credit(s)

The theory and application of classical and instrumental quantitative analysis with additional emphasis on the fate and analysis of chemicals in the environment.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T
AND

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): CHEM 331L

CHEM 331L - Analytical Chemistry Lab

2 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-331

Co-requisite(s): CHEM-331

CHEM 332 - Analytical Chemistry

3 Credit(s)

A continuation of CHEM 331 with additional coverage of chemical equilibria and electrochemistry.

Prerequisite(s):

CHEM 331 Minimum Grade: D OR T

Co-requisite(s): CHEM 332L

CHEM 332L - Analytical Chemistry Lab

2 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 332.

Co-requisite(s): CHEM 332

CHEM 401 - Biochemistry

3 Credit(s)

A study of structural biochemistry. Course begins with a review of water, the lipophilic environment, noncovalent bonding, and bioenergetics. Topics include amino acids, peptides, proteins, nucleic acids, carbohydrates, and lipids. Enzymes are discussed with emphasis on mechanism and kinetics.

Prerequisite(s):

CHEM 322 Minimum Grade: C- OR T

Co-requisite(s): CHEM 401L

CHEM 401L - Biochemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-401. Laboratory time will be spent learning protein purification techniques and doing independent project work.

Co-requisite(s): CHEM-401

CHEM 402 - Biochemistry II

3 Credit(s)

A study of biochemical metabolism. Topics include catabolism, anabolism, and metabolic control. Three hours of lecture per week.

Prerequisite(s):

CHEM 401 Minimum Grade: C- OR T

CHEM 431 - Physical Chemistry Lecture/Thermodynamics

3 Credit(s)

Thermodynamics as applied to chemistry and physics. Specific topics include the laws of thermodynamics, thermochemistry, reaction and phase equilibrium, solutions, and electrochemistry. An introduction to chemical kinetics is included.

Prerequisite(s):

CHEM-132 Minimum Grade: C- OR T

AND

MATH-121 Minimum Grade: C- OR T

AND

PHYS-225 Minimum Grade: C- OR T

AND

PHYS-226 Minimum Grade: C- OR T

OR

PHYS-230 Minimum Grade: D OR T

AND

PHYS-231 Minimum Grade: D OR T

AND

PHYS-232 Minimum Grade: D OR T

AND

PHYS-233 Minimum Grade: D OR T

Co-requisite(s): CHEM 433

CHEM 433 - Physical Chemistry Laboratory

2 Credit(s)

The principles of physical chemistry applied in the laboratory.

Prerequisite(s):

CHEM 431 Minimum Grade: D OR T

Co-requisite(s): CHEM 431

CHEM 461 - Inorganic Chemistry

3 Credit(s)

Theoretical aspects of inorganic chemistry based upon periodic relationships, symmetry, structure bonding, and reactivities. Offered fall semesters of odd-numbered years.

Prerequisite(s):

CHEM-321 Minimum Grade: C- OR T

AND

CHEM-322 Minimum Grade: C- OR T

OR

CHEM-331 Minimum Grade: C- OR T

AND

CHEM-332 Minimum Grade: C- OR T

Co-requisite(s): CHEM-461L

CHEM 461L - Inorganic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-461. Practices of inorganic chemistry in the laboratory including synthesis and characterization of compounds.

Co-requisite(s): CHEM-461

OR

BIOL 476 - Molecular Biology

5 Credit(s)

An introduction to the study of nucleic acids, genomes and molecular mechanisms with emphasis on genome organization, gene expression, and the techniques used in the study of molecular biology. Laboratory exercises will include standard methodologies such as restriction mapping, cloning, hybridization, DNA libraries, and PCR. Course includes three hours of lecture and four hours of laboratory per week. Senior standing is recommended.

Prerequisite(s):

BIOL 448 Minimum Grade: C- OR T

OR

CHEM 401 Minimum Grade: C- OR T

CHEM 471 - Chemistry Seminar

1 Credit(s)

Capstone course intended for senior chemistry majors consisting of seminars presented by guest speakers, staff, and students; an assessment exam for seniors; and job placement information. Prerequisite: Completion of sufficient degree requirements to be within three semesters of graduating with a chemistry major.

CHEM 472 - Chemistry Seminar Continuation

1 Credit(s)

A continuation of CHEM 471.

Prerequisite(s):

CHEM 471 Minimum Grade: C- OR T

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing

techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-

OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 226 - College Physics II

5 Credit(s)

The second course of a two-semester lecture-laboratory sequence introducing the fundamental principles of physics. In the second semester, students will be introduced to the areas of electricity, electric circuits, optics, and topics in modern physics. Conceptual understanding as well as problem-solving techniques will be emphasized in the lecture. The laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture.

Prerequisite(s):

PHYS 225 Minimum Grade: C- OR T

OR

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T

AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430
AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

BIOL 321 - Genetics

3 Credit(s)

A study of Mendelian and molecular genetics of eukaryotes and prokaryotes. Discussions include basic Mendelian principles, meiosis/mitosis, linkage, gene expression, and molecular techniques. Course includes 3 hours of lecture and 1 hour of peer learning activities per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

OR

CHEM-132 Minimum Grade: C- OR T

AND

CHEM-132L Minimum Grade: C- OR T

BIOL 323 - Cellular Biology

3 Credit(s)

The study of higher plant and animal cells and tissues at the biochemical level including: organelle structure, function, and metabolic role; cell growth, differentiation and specialization; and a survey of instrumentation and methodologies for investigating life processes at the biochemical level. Course includes three hours of lecture per week. Concurrent

registration in BIOL 321 and BIOL 325 is recommended.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

BIOL 325 - Cellular Biology/Genetics Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with BIOL 321 and BIOL 323. Laboratory exercises in this course are designed to demonstrate, complement, and extend concepts considered in BIOL 321 and BIOL 323.

Students will engage in exercises involving a variety of techniques in which data pertinent to both disciplines will be gathered and analyzed. Course includes 3 hours of laboratory per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

AND

CHEM 111L Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 131L Minimum Grade: C- OR T

Co-requisite(s): BIOL 321 BIOL 323

Bachelor of Science in Chemistry

Go to: Chemistry

Specific courses required for this degree:

Completion of the Following Required Courses

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

CHEM 321 - Organic Chemistry

4 Credit(s)

A study of the relationship between structure and reactivity of carbon-containing compounds.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 321L

CHEM 321L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 321. Laboratory time will be divided among techniques, preparation, and mechanistic studies.

Co-requisite(s): CHEM 321

CHEM 322 - Organic Chemistry

4 Credit(s)

A continuation of CHEM 321.

Prerequisite(s):

CHEM 321 Minimum Grade: C- OR T

Co-requisite(s): CHEM 322L

CHEM 322L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-322. Laboratory time will be divided among mechanistic studies, preparation, introductory qualitative analysis, and independent project work.

Co-requisite(s): CHEM-322

CHEM 331 - Analytical Chemistry

3 Credit(s)

The theory and application of classical and instrumental quantitative analysis with additional emphasis on the fate and analysis of chemicals in the environment.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

AND

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): CHEM 331L

CHEM 331L - Analytical Chemistry Lab

2 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-331

Co-requisite(s): CHEM-331

CHEM 332 - Analytical Chemistry

3 Credit(s)

A continuation of CHEM 331 with additional coverage of chemical equilibria and electrochemistry.

Prerequisite(s):

CHEM 331 Minimum Grade: D OR T

Co-requisite(s): CHEM 332L

CHEM 332L - Analytical Chemistry Lab

2 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 332.

Co-requisite(s): CHEM 332

CHEM 431 - Physical Chemistry Lecture/Thermodynamics

3 Credit(s)

Thermodynamics as applied to chemistry and physics. Specific topics include the laws of thermodynamics, thermochemistry, reaction and phase equilibrium, solutions, and electrochemistry. An introduction to chemical kinetics is included.

Prerequisite(s):

CHEM-132 Minimum Grade: C- OR T
AND

MATH-121 Minimum Grade: C- OR T

AND

PHYS-225 Minimum Grade: C- OR T

AND

PHYS-226 Minimum Grade: C- OR T

OR

PHYS-230 Minimum Grade: D OR T

AND

PHYS-231 Minimum Grade: D OR T

AND

PHYS-232 Minimum Grade: D OR T

AND

PHYS-233 Minimum Grade: D OR T

Co-requisite(s): CHEM 433

CHEM 432 - Physical Chemistry Lecture/Quantum Mechanics

3 Credit(s)

Quantum mechanics with applications to atomic structure, bonding, solid state, and spectroscopy. An introduction to kinetic molecular theory of gas, transport properties, and statistical mechanics is included.

Prerequisite(s):

CHEM-132 Minimum Grade: C- OR T

AND

MATH-121 Minimum Grade: C- OR T

AND

PHYS-225 Minimum Grade: C- OR T

AND

PHYS-226 Minimum Grade: C- OR T

OR

PHYS-230 Minimum Grade: D OR T

AND

PHYS-231 Minimum Grade: D OR T

AND

PHYS-232 Minimum Grade: D OR T

AND

PHYS-233 Minimum Grade: D OR T

CHEM 433 - Physical Chemistry Laboratory

2 Credit(s)

The principles of physical chemistry applied in the laboratory.

Prerequisite(s):

CHEM 431 Minimum Grade: D OR T

Co-requisite(s): CHEM 431

CHEM 434 - Physical Chemistry Laboratory

2 Credit(s)

The principles of physical chemistry applied in the laboratory. CHEM-434 includes an independent project.

Prerequisite(s):

CHEM 431 Minimum Grade: D OR T

Co-requisite(s): CHEM 432

CHEM 471 - Chemistry Seminar

1 Credit(s)

Capstone course intended for senior chemistry majors consisting of seminars presented by guest speakers, staff, and students; an assessment exam for seniors; and job placement information. Prerequisite: Completion of sufficient degree requirements to be within three semesters of graduating with a chemistry major.

CHEM 472 - Chemistry Seminar Continuation

1 Credit(s)

A continuation of CHEM 471.

Prerequisite(s):

CHEM 471 Minimum Grade: C- OR T

CHEM 401 - Biochemistry

3 Credit(s)

A study of structural biochemistry. Course begins with a review of water, the lipophilic environment, noncovalent bonding, and bioenergetics. Topics include amino acids, peptides, proteins, nucleic acids, carbohydrates, and lipids. Enzymes are discussed with emphasis on mechanism and kinetics.

Prerequisite(s):

CHEM 322 Minimum Grade: C- OR T

Co-requisite(s): CHEM 401L

CHEM 401L - Biochemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-401. Laboratory time will be spent learning protein purification techniques and doing independent project work.

Co-requisite(s): CHEM-401

CHEM 461 - Inorganic Chemistry

3 Credit(s)

Theoretical aspects of inorganic chemistry based upon periodic relationships, symmetry, structure bonding, and reactivities. Offered fall semesters of odd-numbered years.

Prerequisite(s):

CHEM-321 Minimum Grade: C- OR T

AND

CHEM-322 Minimum Grade: C- OR T

OR

CHEM-331 Minimum Grade: C- OR T

AND

CHEM-332 Minimum Grade: C- OR T

Co-requisite(s): CHEM-461L

CHEM 461L - Inorganic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-461. Practices of inorganic chemistry in the laboratory including synthesis and characterization of compounds.

Co-requisite(s): CHEM-461

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

MATH 220 - Calculus III

4 Credit(s)

This course is an introduction to the calculus of functions of several variables. Typical topics include three-dimensional analytic geometry, vectors, parametric curves and surfaces, arc length and curvature, limits, continuity, partial derivatives, gradients, directional derivatives, tangent planes, multiple integrals, vector fields, line and surface integrals, Green's theorem, Stokes' Theorem, and the divergence theorem.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

OR

MATH 327 - Differential Equations

3 Credit(s)

An introduction to the study and application of ordinary differential equations. Typical topics include first order differential equations, linear differential equations, systems of equations, existence and uniqueness of solutions, bifurcations, the Laplace transform, matrix methods, and stability theorems.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

The Following Courses Are Recommended

CHEM 424 - Advanced Organic Chemistry

3 Credit(s)

A third semester course in organic chemistry, designed for students who wish to gain a better background in the

subject. Topics include bioorganic chemistry, pericyclic reaction, and natural products synthesis. Offered in spring semesters upon sufficient demand. Three hours of lecture per week.

Prerequisite(s):

CHEM 322 Minimum Grade: C- OR T

CHEM 445 - Polymer Chemistry

3 Credit(s)

Introduction to the chemistry of organic, inorganic, and bio-polymers, with an emphasis on synthesis, mechanism, and reaction kinetics. Modern methods of polymer characterization are also covered. Offered upon sufficient demand.

Prerequisite(s):

CHEM-322 Minimum Grade: C- OR T
AND

CHEM-431 Minimum Grade: D OR T

CHEM 334 - Environmental Chemistry

3 Credit(s)

This course is designed to introduce the student to a series of topics including stratospheric chemistry, air pollution, global warming, climate change, renewable energy, pesticides, water pollution, and heavy metal pollution.

Prerequisite(s):

CHEM 331 Minimum Grade: C- OR T

Co-requisite(s): CHEM 334L

CHEM 334L - Environmental Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 334.

Co-requisite(s): CHEM 334

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

MATH 321 - Linear Algebra

3 Credit(s)

An introduction to linear algebra. Typical topics include solutions of systems of linear equations, matrix algebra, determinants, vector spaces, linear independence, span, basis, dimension, coordinates, linear transformations, matrix representations of linear transformations, eigenvalues, eigenvectors, diagonalization, Gram-Schmidt orthonormalization projection, and applications.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

PHYS 300 - Electronics and Microcontrollers

4 Credit(s)

A combined lecture and laboratory course in electronics consisting of four laboratory contact hours and two lecture contact hours per week. The course is a study in operational amplifiers, TTL integrated circuits, and microcontroller interfacing and programming. The focus is on applications and circuit design. Offered in the fall of even years.

Prerequisite(s):

PHYS 226 Minimum Grade: C- OR T
OR

PHYS 232 Minimum Grade: C- OR T

Notes

Students planning graduate work in biochemistry or biology should take CHEM 401 and CHEM 402. Taking both is highly recommended for students going to graduate school in either field. For students oriented in the physical or theoretical areas of chemistry, both MATH 220 and MATH 327 are recommended.

Minor in Chemistry

Go to: Chemistry

Completion of at least 18 semester hours, including CHEM 131 and CHEM 132 and a one-year sequence of upper-division chemistry. The minor must be approved by the coordinator of the chemistry program.

Engineering and Computer Science

Return to: School of Science, Technology, Engineering and Math (STEM)

The Engineering and Computer Science Program at Adams State offers a full range of courses for both majors and non-majors designed to prepare you to work in a challenging, creative, and intellectually stimulating field with outstanding opportunities for employment and advancement.

The Department of Engineering and Computer Science offers a hands-on, laboratory-intensive mechanical engineering program that is built upon the successful mechanical engineering program at Colorado State University (CSU) in Fort Collins. The laboratory and manufacturing facilities at Adams State University consist of brand-new, state-of-the-art equipment designed to develop and build skills that are needed in business and industry. The program is a partnership with CSU wherein students complete their first two years of coursework as an Adams State student, followed by two years of upper-division coursework taught face-to-face on the Adams State University campus by CSU faculty living in Alamosa.

Students can earn an associate of science degree in engineering from Adams State University in two years. This degree articulates directly into the bachelor of science degree in engineering that is formally earned as a CSU student (but all 4-years of coursework are completed face-to-face in Alamosa).

Students are encouraged to be a part of ACME (Adams State Computer Science, Mathematics and Engineering Club) and the Robotics Club.

Faculty

Department Chair

- Dr. Matt Nehring

Professors

- Matt Nehring, Ph.D., Professor of Physics

Assistant Professors

- Bishal Bhattarai, Ph.D. Assistant Professor of Engineering
- Ahmed Shafee, Ph.D., Assistant Professor of Computer Science
- Kassiopeia Smith, Ph.D., Assistant Professor of Engineering

Course List

All Courses offered by Engineering and Computer Science

Associate of Science, Engineering Emphasis

Go to: [Engineering and Computer Science](#)

The associate degree is an excellent option for students interested in mechanical engineering but not yet ready to commit to a 4-year degree. Students can also earn a highly sought-after Colorado State University mechanical engineering bachelor's degree from the Adams State University campus in Alamosa, Colorado. Students in the San Luis Valley can stay close to home while learning from distinguished faculty of two universities, and benefit from access to CSU resources.

Find out more about the Bachelor of Science in Mechanical Engineering ([Partnership with CSU](#))

Engineering Degree Requirements

First Year Seminar

FYS 101 - First Year Seminar

1 to 3 Credit(s)

First-year students launch into the Adams Experience through a First-Year Seminar (FYS) course. FYS will engage students by creating habits for success, learning to navigate college life, and build skills for success. Each FYS will focus on a unique topic that will be the theme of course discussions, experiences, and assignments. FYS will develop

academic and social capital and support a successful transition into higher education, instill lifelong learning, and reinforce student persistence.

General Education Requirements for the Engineering Degree

Area I - Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T

OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II - Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T
AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the

present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III - Mathematics

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

Area IV - Social and Behavioral Sciences and History

One course designated as GT-SS1 (3 credits)

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

One course designated as GT-HI1 (3 credits)

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes

brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V - Natural and Physical Sciences

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

The Following Required Courses

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

Total: 62 Credits

Note for the Associate of Science, Engineering Emphasis Degree

This Associates degree plan requires only 6 credits from General Education Area IV rather than the standard 9 credits and is an exception in that regard. This exception is necessary due to the external engineering accreditation requirements by ABET which results in a bachelor's degree of 129 credits rather than the usual Colorado maximum of 120 credits. Every engineering degree in the state of Colorado has a "general education waiver" from the common GT-Pathways curriculum requirements.

Bachelor of Science in Computer Science

Go to: Engineering and Computer Science

Degree Requirements

In addition to the Graduation Requirements for Undergraduates:

Complete the following Required Courses

CSCI 104 - Fundamentals of Programming

3 Credit(s)

This course is the first course in the introductory programming sequence for computer science and information technology majors, but is suitable for non-majors interested in getting a taste of computer programming. The course covers program creation, basic control structures, variables, arithmetic expressions, functions, parameters, internal documentation, arrays and strings.

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

CSCI 205 - Computer Science I

4 Credit(s)

This course is the second course in the introductory programming sequence for computer science majors. Through the study of object design this course introduces the basics of graphical user interfaces, data types, control structures, methods, arrays, strings, files, simple graphics and fundamental algorithms. Students will also be introduced to object oriented design, polymorphism, interfaces, the concept of object abstraction, and simple design patterns.

Prerequisite(s):

CSCI 104 Minimum Grade: C- OR T
OR

CSCI 202 Minimum Grade: C- OR T

CSCI 206 - Computer Science II

4 Credit(s)

This course is the third course in the introductory programming sequence for computer science. The course continues object oriented programming and first concepts in object oriented software design. The course also covers classic data structures and algorithms. Concepts covered include streams, graphs, trees, recursion, complexity classes, sorting and searching routines, basic algorithm design and analysis, threading, and generic programming.

Prerequisite(s):

CSCI 205 Minimum Grade: C- OR T

CSCI 224 - Discrete Concepts

4 Credit(s)

A course on the fundamentals of discrete (as opposed to continuous) processes. The course is a foundational course for students pursuing the B.S. Mathematical Sciences Computer Science degree. The course covers a variety of discrete mathematical topics required for a solid background in computer science, including mathematical logic, set theory, induction, algorithmic complexity, combinatorics, discrete probability, basic graph theory, relations, Boolean algebra, finite state automata, and basic theory of computation.

Prerequisite(s):

Math Placement Test - Minimum Score: 5
OR

MATH 106 Minimum Grade: C- OR T

AND

CSCI 205 Minimum Grade: C- OR T

CSCI 318 - Multiprocessor Computing

3 Credit(s)

Introduction to multiprocessor programming and application development covers the principles and practice of distributed system architectures and models, interprocess communication, distributed algorithms, concurrency, security, application programming interfaces, system performance, and programming paradigms appropriate for programming of multiprocessor systems.

Prerequisite(s):

CSCI 325 Minimum Grade: C- or T

MATH 321 - Linear Algebra

3 Credit(s)

An introduction to linear algebra. Typical topics include solutions of systems of linear equations, matrix algebra, determinants, vector spaces, linear independence, span, basis, dimension, coordinates, linear transformations, matrix representations of linear transformations, eigenvalues, eigenvectors, diagonalization, Gram-Schmidt orthonormalization projection, and applications.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

CSCI 325 - Algorithm Design and Analysis

3 Credit(s)

Introduces formal techniques to support the design and analysis of algorithms, focusing on both the underlying mathematical theory and practical considerations of efficiency. Topics include asymptotic complexity bounds, techniques of analysis, algorithmic strategies, and an introduction to automata theory and its application to language translation.

Prerequisite(s):

CSCI 205 Minimum Grade: C- or T

AND

CSCI 206 Minimum Grade: C- or T

AND

MATH 250 Minimum Grade: C- or T

CSCI 335 - Foundations of Networks

4 Credit(s)

This course introduces students to computer networks. Focus is on the concepts of networking like the OSI layered network architectures, network protocols and protocol design. Topics include the fundamentals of networking and communications, network management and wireless computing. Lab sessions feature computer networking hands-on exercises. The course also exposes students to network programming through the use of sockets

Prerequisite(s):

CSCI 205 Minimum Grade: C- OR T

CSCI 343 - Database Systems and Applications

4 Credit(s)

Introduction to database design, implementation, security, transaction management, administration, and programming. Includes a study of embedded, relational, object-oriented, and distributed database architectures.

Prerequisite(s):

CSCI 205 Minimum Grade: C- OR T

CSCI 347 - Software Development/Professional Practice I

2 Credit(s)

Combines a range of topics integral to the design, implementation, and testing of medium-scale software systems including fundamental design patterns, software development processes and project management. Students will form teams, work on two small projects during the term and create a proposal for a medium scale software system to be completed in CS348. In addition to material on software architecture and engineering, this course also includes material on professionalism and ethical responsibilities in software development and design.

Prerequisite(s):

CSCI 206 Minimum Grade: C- OR T

CSCI 348 - Software Development/Professional Practice II

2 Credit(s)

The follow up course for CSCI 347 in which students will implement, with their team, a software design they created in CSCI 347. Students will experience project management and software development processes directly. The course will focus on programming techniques and the last stages of the software development process, including design, validation, evolution, human computer interaction, using APIs, software tools and software development environments.

Prerequisite(s):

CSCI 347 Minimum Grade: C- OR T

CSCI 417 - Computer Systems and Architecture

4 Credit(s)

This class will familiarize students with the basics of the inner workings and design of Computer Systems. The course will examine how operating systems, computer hardware and other system software/hardware combine to produce a usable, efficient and secure system. Topics will include basic machine architecture, memory management (primary and secondary), bus principles, I/O devices, data representation, file systems, process/thread management, scheduling, simple digital logic, virtualization, real time systems concepts, and embedded systems. This course will also examine alternative system designs including basic distributed systems.

Prerequisite(s):

CSCI 206 Minimum Grade: C- OR T

CSCI 427 - Cybersecurity

4 Credit(s)

This course provides an in-depth study of network attack techniques and methods to defend against them. Areas of study include communication security, infrastructure security, social engineering, cryptography, operational and organizational security as it relates to network hardware, software and data. Topics include authentication, confidentiality, integrity, virtual private networks, email protection, web security, wireless security, firewalls, intrusion detection, cryptography, disaster recovery and computer forensics regarding networked systems. In addition, this course combines an ethical methodology with the hands-on application of security tools to better help students to secure and defend their systems, as well as to investigate and diagnose security breaches. Students are introduced to common countermeasures that effectively reduce and/or mitigate attacks. This class is designed to help students prepare for professional careers in the information security field and the Certified Ethical Hacker (CEH) certification exam. The course contains a lab component where students will conduct a variety of security based hands-on activities using open source actual or virtual systems.

Prerequisite(s):

CSCI 206 with Minimum Grade C- OR T
AND

CSCI 335 with Minimum Grade C- OR T

CSCI 428 - Artificial Intelligence

3 Credit(s)

Provides both a brief overview of the basics of artificial intelligence and machine learning, and an in-depth investigation of selected hot topics in the field. The course will examine basic and advanced search techniques, knowledge representation, machine learning and data mining, natural language processing, and historical and philosophical issues regarding artificial intelligence. The course is a project-based course that will involve implementing and experimenting with open-source machine-learning software.

Prerequisite(s):

CSCI 206 Minimum Grade: C- or T
AND

CSCI 224 Minimum Grade: C- or T

CSCI 438 - Cloud Computing

3 Credit(s)

This course educates participants about cloud deployment and service models, cloud infrastructure and the key considerations in migrating to cloud computing. For all definitions of cloud computing, the course has resorted to the U.S. National Institute of Standards and Technology as a guide. The course covers technologies required to build classic (traditional), virtualized, and cloud data center environments. These technologies include compute, storage, networking, desktop and application virtualization. Additional areas of focus include backup/recovery, business continuity, security, and management. Students will learn about the key considerations and steps involved in transitioning from the current state of their data center to a cloud computing environment. Upon completing this course, participants will have the knowledge to make informed decisions about migrating to cloud infrastructure and choosing the best deployment model for their organization.

Prerequisite(s):

CSCI 318 minimum grade C- or T
AND

CSCI 335 minimum grade C- or T

AND

CSCI 417 minimum grade C- or T

CSCI 471 - Senior Capstone I

1 Credit(s)

First-semester of a capstone course intended for senior computer science and information technology majors. In this course students will begin the development of a project to be conducted under the guidance of a faculty advisor from the department. In addition, the course will focus on written and oral communication of technical material appropriate to the disciplines of mathematics, computer science, and physics.

CSCI 472 - Senior Capstone II

1 Credit(s)

Second-semester of a capstone course intended for senior computer science and information technology majors. In this course students will continue the development of an independent project, begun in CSCI 471, and conducted under the guidance of a faculty advisor from the department. In addition, the course will focus on written and oral communication of a technical material appropriate to the mathematical sciences.

Prerequisite(s):

CSCI 471 Minimum Grade: C- OR T

Bachelor of Science in Mechanical Engineering (Partnership with CSU)

Go to: [Engineering and Computer Science](#)

Earn a highly sought-after Colorado State University mechanical engineering bachelor's degree from the Adams State University campus in Alamosa, Colorado. Students in the San Luis Valley can stay close to home while learning from distinguished faculty of two universities, and benefit from access to CSU resources.

Adams State also offers an associate degree that is linked to the successful completion of the lower division courses. This is an excellent option for students interested in mechanical engineering but not yet ready to commit to a 4-year degree.

A total of 129 credits are required to complete the degree, specifically 78 lower division credits and 51 upper division credits.

12 credits of technical electives are required to graduate and will be offered face-to-face on the Adams State campus. For students with specific engineering interests, all existing 400-level technical elective courses that are taught via remote instruction are available to students who have a minimum 3.0 cumulative GPA.

Students completing the CSU-Adams State University Mechanical Engineering (ME) Partnership Program will receive a Bachelor of Science in Mechanical Engineering from CSU. All diplomas and transcripts for the degree will be from Colorado State University.

As per the requirements of the Accreditation Board for Engineering and Technology (ABET), the partnership program will apply for ABET accreditation once the first student graduates from this joint program (anticipated for Spring 2026). Given that the CSU Mechanical Engineering curriculum has been duplicated on the Adams State campus and all student learning outcomes of the partnership correspond to the CSU-Fort Collins ME program, we fully expect ABET will accredit the program once eligibility has been established.

Engineering Degree Requirements

First Year Seminar

FYS 101 - First Year Seminar

1 to 3 Credit(s)

First-year students launch into the Adams Experience through a First-Year Seminar (FYS) course. FYS will engage students by creating habits for success, learning to navigate college life, and build skills for success. Each FYS will focus on a unique topic that will be the theme of course discussions, experiences, and assignments. FYS will develop academic and social capital and support a successful transition into higher education, instill lifelong learning, and reinforce student persistence.

General Education Requirements for the Engineering Degree

Area I - Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T
OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II - Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T
AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III - Mathematics

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

Area IV - Social and Behavioral Sciences and History

One course designated as GT-SS1 (3 credits)

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

One course designated as GT-HI1 (3 credits)

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V - Natural and Physical Sciences

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the

system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

The Following Required Courses

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

Total: 62 Credits

Note for the Associate of Science, Engineering Emphasis Degree

This Associates degree plan requires only 6 credits from General Education Area IV rather than the standard 9 credits and is an exception in that regard. This exception is necessary due to the external engineering accreditation requirements by ABET which results in a bachelor's degree of 129 credits rather than the usual Colorado maximum of 120 credits. Every engineering degree in the state of Colorado has a "general education waiver" from the common GT-Pathways curriculum requirements.

Minor in Computer Science

Go to: Engineering and Computer Science

Degree Requirements

CSCI 205 - Computer Science I

4 Credit(s)

This course is the second course in the introductory programming sequence for computer science majors. Through the study of object design this course introduces the basics of graphical user interfaces, data types, control structures, methods, arrays, strings, files, simple graphics and fundamental algorithms. Students will also be introduced to object oriented design, polymorphism, interfaces, the concept of object abstraction, and simple design patterns.

Prerequisite(s):

CSCI 104 Minimum Grade: C- OR T
OR

CSCI 202 Minimum Grade: C- OR T

CSCI 206 - Computer Science II

4 Credit(s)

This course is the third course in the introductory programming sequence for computer science. The course continues object oriented programming and first concepts in object oriented software design. The course also covers classic data structures and algorithms. Concepts covered include streams, graphs, trees, recursion, complexity classes, sorting and searching routines, basic algorithm design and analysis, threading, and generic programming.

Prerequisite(s):

CSCI 205 Minimum Grade: C- OR T

A Minimum 12 Credits from the Following

CSCI 224 - Discrete Concepts

4 Credit(s)

A course on the fundamentals of discrete (as opposed to continuous) processes. The course is a foundational course for students pursuing the B.S. Mathematical Sciences Computer Science degree. The course covers a variety of discrete mathematical topics required for a solid background in computer science, including mathematical logic, set theory, induction, algorithmic complexity, combinatorics, discrete probability, basic graph theory, relations, Boolean algebra, finite state automata, and basic theory of computation.

Prerequisite(s):

Math Placement Test - Minimum Score: 5
OR

MATH 106 Minimum Grade: C- OR T

AND

CSCI 205 Minimum Grade: C- OR T

CSCI 307 - Programming Languages & Platforms

3 Credit(s)

This course will examine several of the most used programmable platforms/contexts, the programming languages that are used for each, and why each is the way it is. Specific cases and examples that will be considered are cloud computing, mobile platforms, multiprocessors, service oriented architectures, virtual machines, functional programming, logic programming, web services, security, scripting, and even a little low level programming. Students will learn about the various types of programming languages and their appropriate use as well as the use of scripting languages, architectures, application programming interfaces, and programming practices to facilitate the management, integration and security of the systems that support an organization.

Prerequisite(s):

CSCI 205 Minimum Grade: C- OR T

CSCI 316 - Computer Architecture

3 Credit(s)

This class will introduce concepts of computer architecture and organization, including assembly level machine organization, data representation, memory systems, bus principles, digital logic, micro programs, functional machine architecture, RISC, CISC, parallel architectures and other advanced architectures. It will expose students to assembly-level programming and will make them implement assembly programs.

Prerequisite(s):

CSCI 206 Minimum Grade: C- OR T

CSCI 318 - Multiprocessor Computing

3 Credit(s)

Introduction to multiprocessor programming and application development covers the principles and practice of distributed system architectures and models, interprocess communication, distributed algorithms, concurrency, security,

application programming interfaces, system performance, and programming paradigms appropriate for programming of multiprocessor systems.

Prerequisite(s):

CSCI 325 Minimum Grade: C- or T

CSCI 335 - Foundations of Networks

4 Credit(s)

This course introduces students to computer networks. Focus is on the concepts of networking like the OSI layered network architectures, network protocols and protocol design. Topics include the fundamentals of networking and communications, network management and wireless computing. Lab sessions feature computer networking hands-on exercises. The course also exposes students to network programming through the use of sockets

Prerequisite(s):

CSCI 205 Minimum Grade: C- OR T

CSCI 325 - Algorithm Design and Analysis

3 Credit(s)

Introduces formal techniques to support the design and analysis of algorithms, focusing on both the underlying mathematical theory and practical considerations of efficiency. Topics include asymptotic complexity bounds, techniques of analysis, algorithmic strategies, and an introduction to automata theory and its application to language translation.

Prerequisite(s):

CSCI 205 Minimum Grade: C- or T

AND

CSCI 206 Minimum Grade: C- or T

AND

MATH 250 Minimum Grade: C- or T

CSCI 417 - Computer Systems and Architecture

4 Credit(s)

This class will familiarize students with the basics of the inner workings and design of Computer Systems. The course will examine how operating systems, computer hardware and other system software/hardware combine to produce a usable, efficient and secure system. Topics will include basic machine architecture, memory management (primary and secondary), bus principles, I/O devices, data representation, file systems, process/thread management, scheduling, simple digital logic, virtualization, real time systems concepts, and embedded systems. This course will also examine alternative system designs including basic distributed systems.

Prerequisite(s):

CSCI 206 Minimum Grade: C- OR T

CSCI 428 - Artificial Intelligence

3 Credit(s)

Provides both a brief overview of the basics of artificial intelligence and machine learning, and an in-depth investigation of selected hot topics in the field. The course will examine basic and advanced search techniques, knowledge representation, machine learning and data mining, natural language processing, and historical and philosophical issues regarding artificial intelligence. The course is a project-based course that will involve implementing and experimenting with open-source machine-learning software.

Prerequisite(s):

CSCI 206 Minimum Grade: C- or T

AND

CSCI 224 Minimum Grade: C- or T

Minor in Physics

Go to: Engineering and Computer Science

Required Courses

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

PHYS 306 - Modern Physics

4 Credit(s)

A survey of topics in modern physics including: special relativity, properties of electromagnetic radiation, and introduction to quantum mechanics with applications to barriers and atoms. Additional topics vary from year to year and may include statistical mechanics, solid state physics, properties on nuclei and their transformations, natural and induced radioactivity, and elementary particles. Offered spring semesters of even years.

Prerequisite(s):

PHYS 232 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

AND

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 132 Minimum Grade: C- OR T

- PHYS XXX Electives approved by the department chair (4 hours)

Geosciences

Return to: School of Science, Technology, Engineering and Math (STEM)

The program offers four bachelor's degrees, with professional software training that incorporates Geographic Information System (GIS) technology into coursework. Because the San Luis Valley is a fantastic geological library, your classroom studies are complemented by hands-on fieldwork. And with Adams State's low student-to-teacher ratio, you'll have opportunities to work one-on-one with faculty members on the kind of research normally reserved for graduate students.

Adams State is set in the Rio Grande Rift Valley, in between the outdoor laboratories of the San Juan and Sangre de Cristo mountains, with natural features such as Wheeler Geologic Area and the Great Sand Dunes. The Geosciences Program houses an advanced Geographic Information Systems (GIS) laboratory and offers opportunities for professional software training, and for incorporating GIS and remote sensing technology into course work.

Faculty

Department Chair

- Dr. Matt Nehring

Assistant Professors

- Chayan Lahiri, Ph.D.

Course List

All Geosciences Courses

Bachelor of Arts in Geosciences

Go to: Geosciences

Specific courses required for this degree:

A. Required Courses (15 Credit Hours)

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of

laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

GSCI 112 - Earth History

4 Credit(s)

Introduction to the geological evolution of the earth through time using basic principles of stratigraphy and paleontology. Laboratory work includes identification and classification of fossils and correlation of sedimentary environments.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

GSCI 201 - Introduction to Cartography and GIS

3 Credit(s)

This course will introduce students to the core concepts of Geographic Information Systems (GIS) and the importance and relevance of GIS in today's world. Students will learn what GIS is, what it is used for, and how to perform basic and core tasks involving GIS analysis. An objective is to help students develop the ability to think critically about

cartographic processes and representations as well as develop their skills in creating maps. Students are expected to have basic computer proficiency prior to enrolling in this course.

GSCI 350 - Geology Excursion

2 Credit(s)

This course centers around a field trip experience of approximately one week, generally during spring break, to different areas of the southwestern U.S. This course may be taken only twice for credit. An additional fee is required. Camping and outdoor activity is required.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 450 - Senior Capstone in Geosciences

2 Credit(s)

Capstone experiences integrate material learned in the major through independent research and creative thinking by students. The capstone experience may include a primary research experience (such as field project or internship) or a substantive exploration of a geoscience topic. Emphasis is also placed on effective writing and oral presentation skills.

B. A Minimum Of 2 Courses From The Following (7 To 8 Credits)

GSCI 307 - Bio-Geography

3 Credit(s)

The course builds upon topics introduced in the introductory physical geography and general biology courses and synthesizes concepts addressed in other upper-division courses dealing with vegetation science, climatology, soil, historical geology, ecology, and evolution to explain patterns and processes influencing past and present distributions of organisms.

Prerequisite(s):

GSCI 109 Minimum Grade: C-
AND

BIOL 209 Minimum Grade: C-

GSCI 311 - Climatology

4 Credit(s)

This course examines the global patterns of climate and the processes that shape them. Particular attention is given to climate change mechanisms (past & present), human-induced changes to the climate system, and likely future climates. Field- and computer-based methodology relevant to the field of climatology is also emphasized.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 321 - Geomorphology with Environmental Applications

4 Credit(s)

This course is a study of the processes that control the development of the materials and landforms found on the earth's surface. An emphasis is placed upon the hydrologic and variables in generating landforms and human interactions with these formative processes. Field trips, topographic map, and aerial photo exercises are required. Offered spring semester of even-numbered years.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 330 - Nature and Properties of Soils

4 Credit(s)

This course analyzes soils as natural bodies and managed resources, focusing on impacts of landforms, hydrology, nutrients, and organisms on soils. The laboratory includes analysis of soil patterns, methods of sampling, and techniques of determining physical and chemical properties of soils. Course includes three hours of lecture and two hours of laboratory per week.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

GSCI 411 - Mountain Geography

3 Credit(s)

This class focuses on the physical science of mountains, including the origin of mountains as well as the climatic, geomorphic, and ecological processes and patterns found in mountain environments. The impact of mountains on human settlement and activities are discussed, as well as how humans have impacted mountain environments.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 421 - Glacial and Periglacial Geography

3 Credit(s)

This course will examine geomorphological aspects of the cryosphere, giving emphasis to the study of landforms and sediments created by ice sheets and periglacial processes both past and present. Where relevant, the applied aspects of glacial and periglacial geomorphology will be given specific attention.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

C. A Minimum Of 2 Courses From The Following (7 To 9 Credits)

GSCI 331 - Macro and Optical Mineralogy

5 Credit(s)

This course provides a systematic identification of natural minerals and gemstones utilizing their physical, crystallographic, and optical characteristics.

Prerequisite(s):

GSCI 112 Minimum Grade: C- OR T

GSCI 371 - Structural Geology

4 Credit(s)

This course focuses on the recognition, representation, and significance of geologic structures of the earth's crust. This course includes occasional required field trips and is offered fall semester of even-numbered years.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 343 - Sedimentology and Stratigraphy

4 Credit(s)

This course studies the origin and occurrence of sedimentary materials and their vertical succession. Sediment dynamics and structures will be explored within various depositional settings. Course includes required field trips. GSCI-343 is complementary to Igneous and Metamorphic Petrology (GSCI-334).

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 433 - Environmental Geochem Model

3 Credit(s)

This lecture and computer modeling course examines the interaction of geological materials with the surface environment. Processes of transport and fate of contaminants and pollutants from natural and man made sources will be addressed, as well as the geology of some natural resources that contribute pollutants.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

AND

CHEM 131 Minimum Grade: C- OR T

OR

CHEM 132 Minimum Grade: C- OR T

GSCI 440 - Groundwater

4 Credit(s)

This course explores the groundwater system and its relationship with surface water systems of rivers, lakes, and oceans.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620 and GSCI 112 Minimum Grade: C- or T

D. A Minimum Of 2 Courses From The Following (5 To 8 Credits)

GSCI 212 - Natural Resource Management on Public Lands

3 Credit(s)

This course will examine public lands management from both a theoretical and descriptive perspective. The major political forces affecting public lands, and the specific details of energy policy, forests, rangelands, national parks, and wildlife on public lands are discussed.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

OR

BIOL 330 Minimum Grade: C-

GSCI 300 - World Geography

3 Credit(s)

The course examines human or cultural geography with a global perspective. It uses a topic centered approach. It is intended to give the student an appreciation of the interaction between physical geography, environment, and cultural practices.

GSCI 420 - Remote Sensing

4 Credit(s)

The course considers acquisition and interpretation of remote sensed environmental data, theory and sensors, and manual and computerized interpretation methods.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T
AND

GSCI 201 Minimum Grade: C- OR T

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T
AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

BIOL 314 - Conservation Biology

3 Credit(s)

Conservation biology is the study of how to preserve the world's biological and genetic diversity while maintaining functional ecosystems. The course will explore these issues using an integrated approach with emphasis on identifying ways that wildlife and humans can sustainably coexist.

Prerequisite(s):

BIOL 330 Minimum Grade: C- OR T
OR

GSCI 307 Minimum Grade: C- OR T

BIOL 468 - Vegetation/Habitat Management

3 Credit(s)

A study of the composition, structure and productivity of vegetation with emphasis on ecological applications in creating and managing wildlife habitat.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

OR

BIOL 330 Minimum Grade: C- OR T

AND

GEOG 212 Minimum Grade: C- OR T

E. A Minimum Of 1 Course From The Following (3 Credit Hours)

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 384 - Natural Resources/Water Law

3 Credit(s)

The goal of this course is to provide students with knowledge of the regulatory responsibilities related to agriculture production and operations with respect to natural resources and water. The course will cover federal, state, and local requirements as well as application to agribusiness endeavors.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 211 Minimum Grade: C- OR T

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

F. Completion Of Required Support Courses (21 Credit Hours)

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 112 - Introduction to Organic/Biological Chemistry

4 Credit(s)

A study of the fundamental concepts of organic chemistry and biochemistry. Will not satisfy requirements for a chemistry major, minor or pre-professional studies (pre-med etc.) The course is satisfactory for biology majors who take only one year of chemistry, and for HPPE advanced track.

Prerequisite(s):

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 112L

OR

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T
OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T
OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Total Credit Hours 58-64

A Minor Is Highly Recommended

Bachelor of Arts in Geosciences, Science Education Emphasis with Geosciences Secondary Teacher Licensure

Go to: Bachelor of Arts, Secondary Education Licensure
Go to: Geosciences

The secondary teacher licensure program qualifies a student for a Colorado standard teaching license in science education.

1. Complete the Following Required Courses

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

GSCI 112 - Earth History

4 Credit(s)

Introduction to the geological evolution of the earth through time using basic principles of stratigraphy and paleontology. Laboratory work includes identification and classification of fossils and correlation of sedimentary environments.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

GSCI 321 - Geomorphology with Environmental Applications

4 Credit(s)

This course is a study of the processes that control the development of the materials and landforms found on the earth's surface. An emphasis is placed upon the hydrologic and variables in generating landforms and human interactions with these formative processes. Field trips, topographic map, and aerial photo exercises are required. Offered spring semester of even-numbered years.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 331 - Macro and Optical Mineralogy

5 Credit(s)

This course provides a systematic identification of natural minerals and gemstones utilizing their physical, crystallographic, and optical characteristics.

Prerequisite(s):

GSCI 112 Minimum Grade: C- OR T

GSCI 334 - Igneous/Metamorphic Petrology

5 Credit(s)

The study of the occurrence and origin of igneous and metamorphic rock. Laboratory exercises will emphasize the petrographic analysis of both macro and optical components of igneous and metamorphic rocks. Course includes field trips. Course is offered Spring semester of even-numbered years. GSCI-334 is a complimentary course with GSCI-343 Sedimentology and Stratigraphy

Prerequisite(s):

GSCI 331 Minimum Grade: C- OR T

GSCI 343 - Sedimentology and Stratigraphy

4 Credit(s)

This course studies the origin and occurrence of sedimentary materials and their vertical succession. Sediment dynamics and structures will be explored within various depositional settings. Course includes required field trips. GSCI-343 is complementary to Igneous and Metamorphic Petrology (GSCI-334).

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 371 - Structural Geology

4 Credit(s)

This course focuses on the recognition, representation, and significance of geologic structures of the earth's crust. This course includes occasional required field trips and is offered fall semester of even-numbered years.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

Complete All Support Courses

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

ED 350 - Methods for Teaching Science - Secondary

3 Credit(s)

This course is designed to support the beginning secondary science teacher. Presuming a solid foundation of conceptual knowledge in the content area, the course emphasizes the development of a framework of instructional knowledge and skills to provide successful learning for all students.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

GSCI 300 - World Geography**3 Credit(s)**

The course examines human or cultural geography with a global perspective. It uses a topic centered approach. It is intended to give the student an appreciation of the interaction between physical geography, environment, and cultural practices.

MATH 107 - Trig/ Analytic Geometry GT-MA1**3 Credit(s)**

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2**3 Credit(s)**

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

PHYS 225 - College Physics I GT-SC1**5 Credit(s)**

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-

OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

Recommended Courses

CSCI 104 - Fundamentals of Programming

3 Credit(s)

This course is the first course in the introductory programming sequence for computer science and information technology majors, but is suitable for non-majors interested in getting a taste of computer programming. The course covers program creation, basic control structures, variables, arithmetic expressions, functions, parameters, internal documentation, arrays and strings.

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

GSCI 201 - Introduction to Cartography and GIS

3 Credit(s)

This course will introduce students to the core concepts of Geographic Information Systems (GIS) and the importance and relevance of GIS in today's world. Students will learn what GIS is, what it is used for, and how to perform basic and

core tasks involving GIS analysis. An objective is to help students develop the ability to think critically about cartographic processes and representations as well as develop their skills in creating maps. Students are expected to have basic computer proficiency prior to enrolling in this course.

GSCI 123 - Geology of the San Luis Valley

1 Credit(s)

This course explores the local geology of the San Luis Valley and surrounding areas on day trips. Course is offered during the fall or spring semester. Outdoor activity required.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

Note

A minor in biology, chemistry, mathematics or physics is highly recommended for placement in a teaching position.

Plus Additional Secondary Education Licensure Requirements from the School of Education

Bachelor of Arts, Secondary Education Licensure

Bachelor of Science in Geosciences, Geology Emphasis

Go to: Geosciences

Completion of the Following Required Courses

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

GSCI 112 - Earth History

4 Credit(s)

Introduction to the geological evolution of the earth through time using basic principles of stratigraphy and paleontology. Laboratory work includes identification and classification of fossils and correlation of sedimentary environments.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

GSCI 201 - Introduction to Cartography and GIS

3 Credit(s)

This course will introduce students to the core concepts of Geographic Information Systems (GIS) and the importance and relevance of GIS in today's world. Students will learn what GIS is, what it is used for, and how to perform basic and core tasks involving GIS analysis. An objective is to help students develop the ability to think critically about cartographic processes and representations as well as develop their skills in creating maps. Students are expected to have basic computer proficiency prior to enrolling in this course.

GSCI 321 - Geomorphology with Environmental Applications

4 Credit(s)

This course is a study of the processes that control the development of the materials and landforms found on the earth's surface. An emphasis is placed upon the hydrologic and variables in generating landforms and human interactions with these formative processes. Field trips, topographic map, and aerial photo exercises are required. Offered spring

semester of even-numbered years.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 331 - Macro and Optical Mineralogy

5 Credit(s)

This course provides a systematic identification of natural minerals and gemstones utilizing their physical, crystallographic, and optical characteristics.

Prerequisite(s):

GSCI 112 Minimum Grade: C- OR T

GSCI 334 - Igneous/Metamorphic Petrology

5 Credit(s)

The study of the occurrence and origin of igneous and metamorphic rock. Laboratory exercises will emphasize the petrographic analysis of both macro and optical components of igneous and metamorphic rocks. Course includes field trips. Course is offered Spring semester of even-numbered years. GSCI-334 is a complimentary course with GSCI-343 Sedimentology and Stratigraphy

Prerequisite(s):

GSCI 331 Minimum Grade: C- OR T

GSCI 343 - Sedimentology and Stratigraphy

4 Credit(s)

This course studies the origin and occurrence of sedimentary materials and their vertical succession. Sediment dynamics and structures will be explored within various depositional settings. Course includes required field trips. GSCI-343 is complementary to Igneous and Metamorphic Petrology (GSCI-334).

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 371 - Structural Geology

4 Credit(s)

This course focuses on the recognition, representation, and significance of geologic structures of the earth's crust. This course includes occasional required field trips and is offered fall semester of even-numbered years.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 450 - Senior Capstone in Geosciences

2 Credit(s)

Capstone experiences integrate material learned in the major through independent research and creative thinking by students. The capstone experience may include a primary research experience (such as field project or internship) or a substantive exploration of a geoscience topic. Emphasis is also placed on effective writing and oral presentation skills.

GSCI 495 - Field Geology

6 Credit(s)

This course teaches fundamental applications of traditional geological field mapping methods and recognition of geological features in an outdoor setting. Report writing, presentations, and planning for field work are also covered. Modern technology is included whenever appropriate to learning field-based methods.

A Minimum of 2 of the Following Three Courses

GSCI 330 - Nature and Properties of Soils

4 Credit(s)

This course analyzes soils as natural bodies and managed resources, focusing on impacts of landforms, hydrology, nutrients, and organisms on soils. The laboratory includes analysis of soil patterns, methods of sampling, and techniques of determining physical and chemical properties of soils. Course includes three hours of lecture and two hours of laboratory per week.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T
AND

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

GSCI 433 - Environmental Geochem Model

3 Credit(s)

This lecture and computer modeling course examines the interaction of geological materials with the surface environment. Processes of transport and fate of contaminants and pollutants from natural and man made sources will be addressed, as well as the geology of some natural resources that contribute pollutants.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T
AND

CHEM 131 Minimum Grade: C- OR T

OR

CHEM 132 Minimum Grade: C- OR T

GSCI 440 - Groundwater

4 Credit(s)

This course explores the groundwater system and its relationship with surface water systems of rivers, lakes, and oceans.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620 and GSCI 112 Minimum Grade: C- or T

Completion of Required Support courses

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-

OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 226 - College Physics II

5 Credit(s)

The second course of a two-semester lecture-laboratory sequence introducing the fundamental principles of physics. In the second semester, students will be introduced to the areas of electricity, electric circuits, optics, and topics in modern physics. Conceptual understanding as well as problem-solving techniques will be emphasized in the lecture. The laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture.

Prerequisite(s):

PHYS 225 Minimum Grade: C- OR T

Recommended Courses

GSCI 123 - Geology of the San Luis Valley

1 Credit(s)

This course explores the local geology of the San Luis Valley and surrounding areas on day trips. Course is offered during the fall or spring semester. Outdoor activity required.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 350 - Geology Excursion

2 Credit(s)

This course centers around a field trip experience of approximately one week, generally during spring break, to different areas of the southwestern U.S. This course may be taken only twice for credit. An additional fee is required. Camping and outdoor activity is required.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

Bachelor of Science in Geosciences, Physical Geography and Conservation Emphasis

Go to: Geosciences

Completion of the Following Required Courses

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

GSCI 201 - Introduction to Cartography and GIS

3 Credit(s)

This course will introduce students to the core concepts of Geographic Information Systems (GIS) and the importance and relevance of GIS in today's world. Students will learn what GIS is, what it is used for, and how to perform basic and core tasks involving GIS analysis. An objective is to help students develop the ability to think critically about cartographic processes and representations as well as develop their skills in creating maps. Students are expected to have basic computer proficiency prior to enrolling in this course.

GSCI 212 - Natural Resource Management on Public Lands

3 Credit(s)

This course will examine public lands management from both a theoretical and descriptive perspective. The major political forces affecting public lands, and the specific details of energy policy, forests, rangelands, national parks, and wildlife on public lands are discussed.

Prerequisite(s):

GSCI 109 Minimum Grade: C-
OR

BIOL 330 Minimum Grade: C-

GSCI 300 - World Geography

3 Credit(s)

The course examines human or cultural geography with a global perspective. It uses a topic-centered approach. It is intended to give the student an appreciation of the interaction between physical geography, environment, and cultural practices.

GSCI 450 - Senior Capstone in Geosciences

2 Credit(s)

Capstone experiences integrate material learned in the major through independent research and creative thinking by students. The capstone experience may include a primary research experience (such as field project or internship) or a substantive exploration of a geoscience topic. Emphasis is also placed on effective writing and oral presentation skills.

Plus a Minimum of Three Courses from the Following (11 to 12 Credits)

GSCI 307 - Bio-Geography

3 Credit(s)

The course builds upon topics introduced in the introductory physical geography and general biology courses and

synthesizes concepts addressed in other upper-division courses dealing with vegetation science, climatology, soil, historical geology, ecology, and evolution to explain patterns and processes influencing past and present distributions of organisms.

Prerequisite(s):

GSCI 109 Minimum Grade: C-
AND

BIOL 209 Minimum Grade: C-

GSCI 311 - Climatology

4 Credit(s)

This course examines the global patterns of climate and the processes that shape them. Particular attention is given to climate change mechanisms (past & present), human-induced changes to the climate system, and likely future climates. Field- and computer-based methodology relevant to the field of climatology is also emphasized.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 321 - Geomorphology with Environmental Applications

4 Credit(s)

This course is a study of the processes that control the development of the materials and landforms found on the earth's surface. An emphasis is placed upon the hydrologic and variables in generating landforms and human interactions with these formative processes. Field trips, topographic map, and aerial photo exercises are required. Offered spring semester of even-numbered years.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 330 - Nature and Properties of Soils

4 Credit(s)

This course analyzes soils as natural bodies and managed resources, focusing on impacts of landforms, hydrology, nutrients, and organisms on soils. The laboratory includes analysis of soil patterns, methods of sampling, and techniques of determining physical and chemical properties of soils. Course includes three hours of lecture and two hours of laboratory per week.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T
AND

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

Plus a Minimum of Two Courses from the Following (6 or 7 Credits)

GSCI 411 - Mountain Geography

3 Credit(s)

This class focuses on the physical science of mountains, including the origin of mountains as well as the climatic, geomorphic, and ecological processes and patterns found in mountain environments. The impact of mountains on human settlement and activities are discussed, as well as how humans have impacted mountain environments.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 420 - Remote Sensing

4 Credit(s)

The course considers acquisition and interpretation of remote sensed environmental data, theory and sensors, and manual and computerized interpretation methods.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

AND

GSCI 201 Minimum Grade: C- OR T

GSCI 421 - Glacial and Periglacial Geography

3 Credit(s)

This course will examine geomorphological aspects of the cryosphere, giving emphasis to the study of landforms and sediments created by ice sheets and periglacial processes both past and present. Where relevant, the applied aspects of glacial and periglacial geomorphology will be given specific attention.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 462 - Geography and Geology of World Regions

3 Credit(s)

This field course, offered during winter, spring, or summer break, explores regions of the world through a geographic and geological perspective. A different region is studied every other summer. Focus is placed on understanding the structural geology, tectonic landscape, surficial processes, and human-environment interactions of the region. Students will gain an intimate knowledge of world regions, landscapes, and cultures. Examples of world regions include the Northern Alps, Iceland, Great Britain and Newfoundland, and Japan.

Plus a Minimum of Two Courses from the Following (6 to 8 Credits)

GSCI 112 - Earth History

4 Credit(s)

Introduction to the geological evolution of the earth through time using basic principles of stratigraphy and paleontology. Laboratory work includes identification and classification of fossils and correlation of sedimentary environments.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

GSCI 343 - Sedimentology and Stratigraphy

4 Credit(s)

This course studies the origin and occurrence of sedimentary materials and their vertical succession. Sediment dynamics and structures will be explored within various depositional settings. Course includes required field trips. GSCI-343 is complementary to Igneous and Metamorphic Petrology (GSCI-334).

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 433 - Environmental Geochem Model

3 Credit(s)

This lecture and computer modeling course examines the interaction of geological materials with the surface environment. Processes of transport and fate of contaminants and pollutants from natural and man made sources will be addressed, as well as the geology of some natural resources that contribute pollutants.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

AND

CHEM 131 Minimum Grade: C- OR T

OR

CHEM 132 Minimum Grade: C- OR T

GSCI 440 - Groundwater

4 Credit(s)

This course explores the groundwater system and its relationship with surface water systems of rivers, lakes, and oceans.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620 and GSCI 112 Minimum Grade: C- or T

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T
AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

BIOL 314 - Conservation Biology

3 Credit(s)

Conservation biology is the study of how to preserve the world's biological and genetic diversity while maintaining functional ecosystems. The course will explore these issues using an integrated approach with emphasis on identifying ways that wildlife and humans can sustainably coexist.

Prerequisite(s):

BIOL 330 Minimum Grade: C- OR T
OR

GSCI 307 Minimum Grade: C- OR T

BIOL 468 - Vegetation/Habitat Management

3 Credit(s)

A study of the composition, structure and productivity of vegetation with emphasis on ecological applications in creating and managing wildlife habitat.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

OR

BIOL 330 Minimum Grade: C- OR T

AND

GEOG 212 Minimum Grade: C- OR T

Plus a Minimum of One Course from the Following (3 Credits)

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 384 - Natural Resources/Water Law

3 Credit(s)

The goal of this course is to provide students with knowledge of the regulatory responsibilities related to agriculture production and operations with respect to natural resources and water. The course will cover federal, state, and local requirements as well as application to agribusiness endeavors.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 211 Minimum Grade: C- OR T

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

Completion of Required Support Courses

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

Note

A minor is highly recommended. Consult with an advisor.

Minor in Environmental Science

Go to: Geosciences

Degree Requirements

Completion of at least 18 credit hours selected in consultation with the department chair or completion of the following.

Completion of Required Courses

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Completion of at Least 4 Credits from the Following

CHEM 334 - Environmental Chemistry

3 Credit(s)

This course is designed to introduce the student to a series of topics including stratospheric chemistry, air pollution, global warming, climate change, renewable energy, pesticides, water pollution, and heavy metal pollution.

Prerequisite(s):

CHEM 331 Minimum Grade: C- OR T

Co-requisite(s): CHEM 334L

CHEM 334L - Environmental Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 334.

Co-requisite(s): CHEM 334

GSCI 212 - Natural Resource Management on Public Lands

3 Credit(s)

This course will examine public lands management from both a theoretical and descriptive perspective. The major political forces affecting public lands, and the specific details of energy policy, forests, rangelands, national parks, and wildlife on public lands are discussed.

Prerequisite(s):

GSCI 109 Minimum Grade: C-
OR

BIOL 330 Minimum Grade: C-

GSCI 311 - Climatology

4 Credit(s)

This course examines the global patterns of climate and the processes that shape them. Particular attention is given to climate change mechanisms (past & present), human-induced changes to the climate system, and likely future climates. Field- and computer-based methodology relevant to the field of climatology is also emphasized.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 321 - Geomorphology with Environmental Applications

4 Credit(s)

This course is a study of the processes that control the development of the materials and landforms found on the earth's surface. An emphasis is placed upon the hydrologic and variables in generating landforms and human interactions with these formative processes. Field trips, topographic map, and aerial photo exercises are required. Offered spring semester of even-numbered years.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 433 - Environmental Geochem Model

3 Credit(s)

This lecture and computer modeling course examines the interaction of geological materials with the surface environment. Processes of transport and fate of contaminants and pollutants from natural and man made sources will be addressed, as well as the geology of some natural resources that contribute pollutants.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

AND

CHEM 131 Minimum Grade: C- OR T

OR

CHEM 132 Minimum Grade: C- OR T

Minor in Geography

Go to: Geosciences

Degree Requirements

Required Courses (10 Credit Hours)

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

GSCI 201 - Introduction to Cartography and GIS

3 Credit(s)

This course will introduce students to the core concepts of Geographic Information Systems (GIS) and the importance and relevance of GIS in today's world. Students will learn what GIS is, what it is used for, and how to perform basic and core tasks involving GIS analysis. An objective is to help students develop the ability to think critically about cartographic processes and representations as well as develop their skills in creating maps. Students are expected to have basic computer proficiency prior to enrolling in this course.

GSCI 300 - World Geography

3 Credit(s)

The course examines human or cultural geography with a global perspective. It uses a topic-centered approach. It is intended to give the student an appreciation of the interaction between physical geography, environment, and cultural practices.

Electives

(Students must complete a minimum of 8 credit hours from the following)

GSCI 212 - Natural Resource Management on Public Lands

3 Credit(s)

This course will examine public lands management from both a theoretical and descriptive perspective. The major political forces affecting public lands, and the specific details of energy policy, forests, rangelands, national parks, and wildlife on public lands are discussed.

Prerequisite(s):

GSCI 109 Minimum Grade: C-
OR

BIOL 330 Minimum Grade: C-

GSCI 307 - Bio-Geography

3 Credit(s)

The course builds upon topics introduced in the introductory physical geography and general biology courses and synthesizes concepts addressed in other upper-division courses dealing with vegetation science, climatology, soil, historical geology, ecology, and evolution to explain patterns and processes influencing past and present distributions of organisms.

Prerequisite(s):

GSCI 109 Minimum Grade: C-
AND

BIOL 209 Minimum Grade: C-

GSCI 311 - Climatology

4 Credit(s)

This course examines the global patterns of climate and the processes that shape them. Particular attention is given to climate change mechanisms (past & present), human-induced changes to the climate system, and likely future climates. Field- and computer-based methodology relevant to the field of climatology is also emphasized.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 321 - Geomorphology with Environmental Applications

4 Credit(s)

This course is a study of the processes that control the development of the materials and landforms found on the earth's surface. An emphasis is placed upon the hydrologic and variables in generating landforms and human interactions with these formative processes. Field trips, topographic map, and aerial photo exercises are required. Offered spring semester of even-numbered years.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 330 - Nature and Properties of Soils

4 Credit(s)

This course analyzes soils as natural bodies and managed resources, focusing on impacts of landforms, hydrology, nutrients, and organisms on soils. The laboratory includes analysis of soil patterns, methods of sampling, and techniques of determining physical and chemical properties of soils. Course includes three hours of lecture and two hours of laboratory per week.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T
AND

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

GSCI 420 - Remote Sensing

4 Credit(s)

The course considers acquisition and interpretation of remote sensed environmental data, theory and sensors, and manual and computerized interpretation methods.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T
AND

GSCI 201 Minimum Grade: C- OR T

GSCI 411 - Mountain Geography

3 Credit(s)

This class focuses on the physical science of mountains, including the origin of mountains as well as the climatic, geomorphic, and ecological processes and patterns found in mountain environments. The impact of mountains on human settlement and activities are discussed, as well as how humans have impacted mountain environments.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 421 - Glacial and Periglacial Geography

3 Credit(s)

This course will examine geomorphological aspects of the cryosphere, giving emphasis to the study of landforms and sediments created by ice sheets and periglacial processes both past and present. Where relevant, the applied aspects of glacial and periglacial geomorphology will be given specific attention.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

Minor in Geology

Go to: Geosciences

Degree Requirements

Completion of the following required courses:

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

GSCI 112 - Earth History

4 Credit(s)

Introduction to the geological evolution of the earth through time using basic principles of stratigraphy and paleontology. Laboratory work includes identification and classification of fossils and correlation of sedimentary environments.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

GSCI 123 - Geology of the San Luis Valley

1 Credit(s)

This course explores the local geology of the San Luis Valley and surrounding areas on day trips. Course is offered during the fall or spring semester. Outdoor activity required.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 350 - Geology Excursion

2 Credit(s)

This course centers around a field trip experience of approximately one week, generally during spring break, to different areas of the southwestern U.S. This course may be taken only twice for credit. An additional fee is required. Camping and outdoor activity is required.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

- GSCI or GSCI 3XX or 4XX elective courses **7 Credit(s)**

Mathematics

Return to: School of Science, Technology, Engineering and Math (STEM)

The Mathematics Program offers two degree programs in mathematics: a Bachelor of Arts degree in mathematics and a Bachelor of Arts degree in mathematics with secondary teacher licensure.

Students can also pursue elementary education by obtaining a Bachelor of Arts in elementary education licensure with a mathematics emphasis. Students following the various degree programs may prepare themselves for teaching, positions in private industry or government, or for graduate study in mathematics or an allied field.

Faculty

Program Chair

- Meredith Anderson, Ph.D.

Professors

- Meredith Anderson, Ph.D.
- Tony Weathers, Ph.D.

Associate Professors

- Ashley Clayton, Ph.D

Course List

All Mathematics Courses

Bachelor of Arts in Elementary Education Licensure, Mathematics Emphasis

Go to: Bachelor of Arts in Elementary Education

Go to: Mathematics

Students must complete a minimum of 15 credits

Two courses from this list must be selected

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of

Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Pick two or three courses from the following so that the total emphasis coursework totals a minimum of 15 credits

MATH 140 - Geometry Using Technology

3 Credit(s)

An introduction to the major concepts of Euclidean Geometry using interactive geometric visualization software such as Geometer's Sketchpad, Kig, or C.a.R. Students will use the software to survey Euclidean Geometry and discover basic principles and theorems.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

Accuplacer - Math - Minimum Score: 085

OR

MATH 99 Minimum Grade: S OR T

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T

OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

MATH 230 - Excursions in Mathematics

3 Credit(s)

A quantitative and qualitative exploration of some of the great ideas and methods of mathematics. The main focus is on critical thinking and problem solving, as well as mathematical communication. Topics covered include infinity, logic, probability, statistics, Fibonacci numbers, the golden ratio, topology, non-Euclidean geometry, graphs, Pascal's triangle, tiling, fractals, voting theory chaos, and higher dimensions.

Prerequisite(s):

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

CSCI 104 - Fundamentals of Programming

3 Credit(s)

This course is the first course in the introductory programming sequence for computer science and information technology majors, but is suitable for non-majors interested in getting a taste of computer programming. The course covers program creation, basic control structures, variables, arithmetic expressions, functions, parameters, internal documentation, arrays and strings.

OR

CSCI 202 - Programming for Science/Math/Engineering

3 Credit(s)

Covers the fundamentals of programming in a language widely used in mathematical, scientific, and engineering disciplines. The programming language may vary each time the course is offered. Examples of languages that may be used in the course include C++, Python, and MatLab.

Prerequisite(s):

Math Placement Test - Minimum Score: 5

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

Only CSCI 104 or CSCI 202 can be completed as part of the emphasis area.

Plus Additional Elementary Education Licensure Requirements from the School of Education

Bachelor of Arts in Elementary Education

Bachelor of Arts in Mathematics

Go to: Mathematics

Required Mathematics Core (22 credits)

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

MATH 220 - Calculus III

4 Credit(s)

This course is an introduction to the calculus of functions of several variables. Typical topics include three-dimensional analytic geometry, vectors, parametric curves and surfaces, arc length and curvature, limits, continuity, partial derivatives, gradients, directional derivatives, tangent planes, multiple integrals, vector fields, line and surface integrals, Green's theorem, Stokes' Theorem, and the divergence theorem.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 250 - Introduction to Mathematical Thought

3 Credit(s)

This course looks at topics central to further study in mathematics. These include symbolic logic, especially as it applies to mathematical proof; methods of mathematical proof such as direct proof, indirect proof, and by induction; use and meaning of mathematical quantifiers and predicates; sets; relations; equivalence relations and partitions; order relations; and functions and their properties.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

MATH 321 - Linear Algebra

3 Credit(s)

An introduction to linear algebra. Typical topics include solutions of systems of linear equations, matrix algebra, determinants, vector spaces, linear independence, span, basis, dimension, coordinates, linear transformations, matrix representations of linear transformations, eigenvalues, eigenvectors, diagonalization, Gram-Schmidt orthonormalization projection, and applications.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 471 - Senior Capstone I

1 Credit(s)

First-semester of a capstone course intended for senior mathematics majors. In this course students will begin the development of a project to be conducted under the guidance of a faculty advisor from the department. In addition, the course will focus on written and oral communication of technical material appropriate to the disciplines of mathematics, computer science, and physics.

Prerequisite(s):

Senior Standing

MATH 472 - Senior Capstone II

1 Credit(s)

Second-semester of a capstone course intended for senior mathematics majors. In this course students will continue the development of an independent project, begun in MATH 471, and conducted under the guidance of a faculty advisor from the department. In addition, the course will focus on written and oral communication of technical material appropriate to the disciplines of mathematics, computer science, and physics.

Prerequisite(s):

MATH 471 Minimum Grade: C- OR T

Minimum of 3 Credits in Pure Mathematics Is Required

MATH 322 - Algebraic Structures I

3 Credit(s)

An introduction to the theory of groups. Typical topics include sets, mappings, binary operations, equivalence relations, partitions, the integers, induction, the well-ordering property, elementary number theory, cryptography, coding theory, groups (permutation groups, symmetry groups, matrix groups, and cyclic groups), subgroups, cosets, Lagrange's theorem, normal subgroups, homomorphisms, isomorphisms, Cayley's theorem, and isomorphism theorems.

Prerequisite(s):

MATH 250 Minimum Grade: C- OR T
AND

MATH 321 Minimum Grade: C- OR T

MATH 331 - Modern Geometry

3 Credit(s)

An introduction to plane geometry intended for future teachers of mathematics. Typical topics include deductive reasoning and the axiomatic method, Euclidean geometry, parallelism, hyperbolic and other non-Euclidean geometries.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T
AND

MATH 250 Minimum Grade: C- OR T

MATH 420 - Advanced Analysis I

3 Credit(s)

Rigorous presentation of the fundamental concepts and techniques of real analysis, including a careful study of continuity and convergence, sets and functions, sequences and series, limits and continuity, and differentiation.

Prerequisite(s):

MATH 220 Minimum Grade: C- OR T
AND

MATH 250 Minimum Grade: C- OR T

MATH 430 - Complex Analysis

3 Credit(s)

Theory of functions of one complex variable, including derivatives, integrals, power series, residues, and conformal mappings.

Prerequisite(s):

MATH 220 Minimum Grade: C- OR T

MATH 440 - Topology

3 Credit(s)

This course is an introduction to the theory of point-set topology. The main components of the course will be topological spaces, including product and quotient spaces, continuous functions, local and global connectedness, local and global compactness, countability, separability, and the Tychonoff axioms. The culmination of the course will be in the Tietze extension theorem, Uryson's Lemma, and Uryson's Metrization theorem. Further study into Tychonoff axioms and spaces and the Tychonoff theorem will be done, time permitting.

Prerequisite(s):

MATH 250 Minimum Grade: C- OR T

Minimum of 3 Credits in Applied Mathematics Is Required

MATH 327 - Differential Equations

3 Credit(s)

An introduction to the study and application of ordinary differential equations. Typical topics include first order differential equations, linear differential equations, systems of equations, existence and uniqueness of solutions, bifurcations, the Laplace transform, matrix methods, and stability theorems.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 330 - Numerical Analysis

3 Credit(s)

Numerical methods for the solution of mathematical problems and computer application of those methods. Typical topics include the bisection algorithm, fixed point iteration, interpolation, polynomial approximation, numerical differentiation and integration, solution of systems of linear equations, least squares approximation, and error analysis.

Prerequisite(s):

MATH 121 Minimum Grade: C- or T
AND

CSCI 202 Minimum Grade: C- or T

OR

CSCI 205 Minimum Grade: C- or T

MATH 340 - Probability and Statistics

3 Credit(s)

A mathematically oriented introductory course in probability and statistics. Typical topics include counting techniques and laws of probability, independence, discrete and continuous random variable, distributions (normal, t, chi, square, F, Poisson, exponential, and sampling), regression correlation, confidence intervals and hypothesis testing, mathematical expectation, moment generating functions, the Central Limit Theorem, and point estimation.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

15 Additional Credits (Distinct from Previous)

CSCI 224 - Discrete Concepts

4 Credit(s)

A course on the fundamentals of discrete (as opposed to continuous) processes. The course is a foundational course for students pursuing the B.S. Mathematical Sciences Computer Science degree. The course covers a variety of discrete mathematical topics required for a solid background in computer science, including mathematical logic, set theory, induction, algorithmic complexity, combinatorics, discrete probability, basic graph theory, relations, Boolean algebra, finite state automata, and basic theory of computation.

Prerequisite(s):

Math Placement Test - Minimum Score: 5

OR

MATH 106 Minimum Grade: C- OR T

AND

CSCI 205 Minimum Grade: C- OR T

MATH 230 - Excursions in Mathematics

3 Credit(s)

A quantitative and qualitative exploration of some of the great ideas and methods of mathematics. The main focus is on critical thinking and problem solving, as well as mathematical communication. Topics covered include infinity, logic, probability, statistics, Fibonacci numbers, the golden ratio, topology, non-Euclidean geometry, graphs, Pascal's triangle, tiling, fractals, voting theory chaos, and higher dimensions.

Prerequisite(s):

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

MATH 322 - Algebraic Structures I

3 Credit(s)

An introduction to the theory of groups. Typical topics include sets, mappings, binary operations, equivalence relations, partitions, the integers, induction, the well-ordering property, elementary number theory, cryptography, coding theory, groups (permutation groups, symmetry groups, matrix groups, and cyclic groups), subgroups, cosets, Lagrange's theorem, normal subgroups, homomorphisms, isomorphisms, Cayley's theorem, and isomorphism theorems.

Prerequisite(s):

MATH 250 Minimum Grade: C- OR T

AND

MATH 321 Minimum Grade: C- OR T

MATH 323 - Algebraic Structures II

3 Credit(s)

An introduction to the theory of rings and fields. Typical topics include rings, ideals, integral domains, fields, ring homomorphisms, quotient rings, polynomial rings, division algorithms, factorization of polynomials, extensions of fields, finite fields, and Galois theory.

Prerequisite(s):

MATH 322 Minimum Grade: C- OR T

MATH 327 - Differential Equations

3 Credit(s)

An introduction to the study and application of ordinary differential equations. Typical topics include first order differential equations, linear differential equations, systems of equations, existence and uniqueness of solutions, bifurcations, the Laplace transform, matrix methods, and stability theorems.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 330 - Numerical Analysis

3 Credit(s)

Numerical methods for the solution of mathematical problems and computer application of those methods. Typical topics include the bisection algorithm, fixed point iteration, interpolation, polynomial approximation, numerical differentiation and integration, solution of systems of linear equations, least squares approximation, and error analysis.

Prerequisite(s):

MATH 121 Minimum Grade: C- or T

AND

CSCI 202 Minimum Grade: C- or T

OR

CSCI 205 Minimum Grade: C- or T

MATH 331 - Modern Geometry

3 Credit(s)

An introduction to plane geometry intended for future teachers of mathematics. Typical topics include deductive reasoning and the axiomatic method, Euclidean geometry, parallelism, hyperbolic and other non-Euclidean geometries.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

AND

MATH 250 Minimum Grade: C- OR T

MATH 335 - History of Mathematics

3 Credit(s)

This course traces the historical development of mathematics from ancient to modern times, placing mathematical facts into a meaningful intellectual and historical context. Typical topics include mathematics in early civilization such as Egypt and Babylonia; early Greek mathematics from Euclid to Archimedes; the work of Diophantus; mathematics in medieval Islam and its transmission to the Latin West; the early development of algebra; the analytic geometry of Descartes and Fermat; the development of the calculus at the hands of Newton and Leibniz; the contributions of the Bernouilli family; nineteenth-century analysis from Cauchy to Weierstrass; nineteenth-century algebra from Galois through Klein; the development of non-Euclidean geometry; and Cantor's development in set theory.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 340 - Probability and Statistics

3 Credit(s)

A mathematically oriented introductory course in probability and statistics. Typical topics include counting techniques and laws of probability, independence, discrete and continuous random variable, distributions (normal, t, chi, square, F, Poisson, exponential, and sampling), regression correlation, confidence intervals and hypothesis testing, mathematical expectation, moment generating functions, the Central Limit Theorem, and point estimation.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 379 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

MATH 420 - Advanced Analysis I

3 Credit(s)

Rigorous presentation of the fundamental concepts and techniques of real analysis, including a careful study of continuity and convergence, sets and functions, sequences and series, limits and continuity, and differentiation.

Prerequisite(s):

MATH 220 Minimum Grade: C- OR T

AND

MATH 250 Minimum Grade: C- OR T

MATH 421 - Advanced Analysis II

3 Credit(s)

This course is a continuation of MATH 420 with an emphasis on integration, sequences and series of functions, uniform convergence, infinite series, and additional topics of the instructors choosing.

Prerequisite(s):

MATH 420 Minimum Grade: C- OR T

MATH 430 - Complex Analysis

3 Credit(s)

Theory of functions of one complex variable, including derivatives, integrals, power series, residues, and conformal mappings.

Prerequisite(s):

MATH 220 Minimum Grade: C- OR T

MATH 440 - Topology

3 Credit(s)

This course is an introduction to the theory of point-set topology. The main components of the course will be topological spaces, including product and quotient spaces, continuous functions, local and global connectedness, local and global compactness, countability, separability, and the Tychonoff axioms. The culmination of the course will be in the Tietze extension theorem, Uryson's Lemma, and Uryson's Metrization theorem. Further study into Tychonoff axioms and spaces and the Tychonoff theorem will be done, time permitting.

Prerequisite(s):

MATH 250 Minimum Grade: C- OR T

MATH 479 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

1 Class in Computer Programming Is Required (3 or 4 Credits)

CSCI 202 - Programming for Science/Math/Engineering

3 Credit(s)

Covers the fundamentals of programming in a language widely used in mathematical, scientific, and engineering disciplines. The programming language may vary each time the course is offered. Examples of languages that may be used in the course include C++, Python, and MatLab.

Prerequisite(s):

Math Placement Test - Minimum Score: 5

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

CSCI 205 - Computer Science I

4 Credit(s)

This course is the second course in the introductory programming sequence for computer science majors. Through the study of object design this course introduces the basics of graphical user interfaces, data types, control structures, methods, arrays, strings, files, simple graphics and fundamental algorithms. Students will also be introduced to object oriented design, polymorphism, interfaces, the concept of object abstraction, and simple design patterns.

Prerequisite(s):

CSCI 104 Minimum Grade: C- OR T

OR

CSCI 202 Minimum Grade: C- OR T

Minimum 10 Credit Hours

from the following list of science classes (must include corresponding lab):

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T

AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

Note

The above corresponds to a minimum of 56 credits required with 20 upper-division MATH courses

Bachelor of Arts in Mathematics, Secondary Teacher Licensure

Go to: Bachelor of Arts, Secondary Education Licensure

Go to: Mathematics

This degree track is designed to meet the needs of individuals interested in teaching mathematics at the middle-school level and to increase the number of middle-school teachers with a strong mathematics background.

Note: Colorado does not grant licensure for the middle-school grades separate from high school, and furthermore defines the term "highly qualified" as 24 credits in a content area. This degree track exceeds the 24 credit "highly qualified" definition; it follows the suggestions set forth by the Mathematical Association of America (MAA) for prospective middle-school teachers (grades 6-8) and provides appropriate background for someone to meet the Colorado Model Content Standards for mathematics at the middle-school level. However, the coursework in this degree track does NOT provide sufficient background in several areas as described in the guidelines set forth by the MAA for preparing high school teachers (grades 9-12), nor does it meet the requirements for secondary licensure (mathematics) in all states (i.e., a traditional B.A. degree in mathematics).

In summary, this degree track is designed to meet the needs of middle school teachers, provides adequate preparation for a high school teacher in a rural environment, and exceeds the 24 credit hours of content benchmark set by the state for secondary licensure in a content area.

Complete Required Mathematics Requirements

Required Mathematics Core (27 Credits)

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T

OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

MATH 230 - Excursions in Mathematics

3 Credit(s)

A quantitative and qualitative exploration of some of the great ideas and methods of mathematics. The main focus is on critical thinking and problem solving, as well as mathematical communication. Topics covered include infinity, logic, probability, statistics, Fibonacci numbers, the golden ratio, topology, non-Euclidean geometry, graphs, Pascal's triangle, tiling, fractals, voting theory chaos, and higher dimensions.

Prerequisite(s):

MATH 107 Minimum Grade: C- OR T
OR

MATH 120 Minimum Grade: C- OR T

MATH 250 - Introduction to Mathematical Thought

3 Credit(s)

This course looks at topics central to further study in mathematics. These include symbolic logic, especially as it applies to mathematical proof; methods of mathematical proof such as direct proof, indirect proof, and by induction; use and meaning of mathematical quantifiers and predicates; sets; relations; equivalence relations and partitions; order relations; and functions and their properties.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

MATH 331 - Modern Geometry

3 Credit(s)

An introduction to plane geometry intended for future teachers of mathematics. Typical topics include deductive reasoning and the axiomatic method, Euclidean geometry, parallelism, hyperbolic and other non-Euclidean geometries.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T
AND

MATH 250 Minimum Grade: C- OR T

MATH 335 - History of Mathematics

3 Credit(s)

This course traces the historical development of mathematics from ancient to modern times, placing mathematical facts into a meaningful intellectual and historical context. Typical topics include mathematics in early civilization such as Egypt and Babylonia; early Greek mathematics from Euclid to Archimedes; the work of Diophantus; mathematics in medieval Islam and its transmission to the Latin West; the early development of algebra; the analytic geometry of

Descartes and Fermat; the development of the calculus at the hands of Newton and Leibniz; the contributions of the Bernoulli family; nineteenth-century analysis from Cauchy to Weierstrass; nineteenth-century algebra from Galois through Klein; the development of non-Euclidean geometry; and Cantor's development in set theory.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 471 - Senior Capstone I

1 Credit(s)

First-semester of a capstone course intended for senior mathematics majors. In this course students will begin the development of a project to be conducted under the guidance of a faculty advisor from the department. In addition, the course will focus on written and oral communication of technical material appropriate to the disciplines of mathematics, computer science, and physics.

Prerequisite(s):

Senior Standing

MATH 472 - Senior Capstone II

1 Credit(s)

Second-semester of a capstone course intended for senior mathematics majors. In this course students will continue the development of an independent project, begun in MATH 471, and conducted under the guidance of a faculty advisor from the department. In addition, the course will focus on written and oral communication of technical material appropriate to the disciplines of mathematics, computer science, and physics.

Prerequisite(s):

MATH 471 Minimum Grade: C- OR T

Complete a Minimum of 6 Additional Credits (not more than three credits can be a computer science course)

CSCI 202 - Programming for Science/Math/Engineering

3 Credit(s)

Covers the fundamentals of programming in a language widely used in mathematical, scientific, and engineering disciplines. The programming language may vary each time the course is offered. Examples of languages that may be used in the course include C++, Python, and MatLab.

Prerequisite(s):

Math Placement Test - Minimum Score: 5

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

CSCI 205 - Computer Science I

4 Credit(s)

This course is the second course in the introductory programming sequence for computer science majors. Through the study of object design this course introduces the basics of graphical user interfaces, data types, control structures, methods, arrays, strings, files, simple graphics and fundamental algorithms. Students will also be introduced to object oriented design, polymorphism, interfaces, the concept of object abstraction, and simple design patterns.

Prerequisite(s):

CSCI 104 Minimum Grade: C- OR T

OR

CSCI 202 Minimum Grade: C- OR T

CSCI 224 - Discrete Concepts

4 Credit(s)

A course on the fundamentals of discrete (as opposed to continuous) processes. The course is a foundational course for students pursuing the B.S. Mathematical Sciences Computer Science degree. The course covers a variety of discrete mathematical topics required for a solid background in computer science, including mathematical logic, set theory, induction, algorithmic complexity, combinatorics, discrete probability, basic graph theory, relations, Boolean algebra, finite state automata, and basic theory of computation.

Prerequisite(s):

Math Placement Test - Minimum Score: 5

OR

MATH 106 Minimum Grade: C- OR T

AND

CSCI 205 Minimum Grade: C- OR T

MATH 140 - Geometry Using Technology

3 Credit(s)

An introduction to the major concepts of Euclidean Geometry using interactive geometric visualization software such as Geometer's Sketchpad, Kig, or C.a.R. Students will use the software to survey Euclidean Geometry and discover basic principles and theorems.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

Accuplacer - Math - Minimum Score: 085

OR

MATH 99 Minimum Grade: S OR T

MATH 220 - Calculus III

4 Credit(s)

This course is an introduction to the calculus of functions of several variables. Typical topics include three-dimensional analytic geometry, vectors, parametric curves and surfaces, arc length and curvature, limits, continuity, partial derivatives, gradients, directional derivatives, tangent planes, multiple integrals, vector fields, line and surface integrals, Green's theorem, Stokes' Theorem, and the divergence theorem.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 321 - Linear Algebra

3 Credit(s)

An introduction to linear algebra. Typical topics include solutions of systems of linear equations, matrix algebra, determinants, vector spaces, linear independence, span, basis, dimension, coordinates, linear transformations, matrix representations of linear transformations, eigenvalues, eigenvectors, diagonalization, Gram-Schmidt orthonormalization projection, and applications.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 322 - Algebraic Structures I

3 Credit(s)

An introduction to the theory of groups. Typical topics include sets, mappings, binary operations, equivalence relations, partitions, the integers, induction, the well-ordering property, elementary number theory, cryptography, coding theory, groups (permutation groups, symmetry groups, matrix groups, and cyclic groups), subgroups, cosets, Lagrange's theorem, normal subgroups, homomorphisms, isomorphisms, Cayley's theorem, and isomorphism theorems.

Prerequisite(s):

MATH 250 Minimum Grade: C- OR T
AND

MATH 321 Minimum Grade: C- OR T

MATH 327 - Differential Equations

3 Credit(s)

An introduction to the study and application of ordinary differential equations. Typical topics include first order differential equations, linear differential equations, systems of equations, existence and uniqueness of solutions, bifurcations, the Laplace transform, matrix methods, and stability theorems.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 330 - Numerical Analysis

3 Credit(s)

Numerical methods for the solution of mathematical problems and computer application of those methods. Typical topics include the bisection algorithm, fixed point iteration, interpolation, polynomial approximation, numerical differentiation and integration, solution of systems of linear equations, least squares approximation, and error analysis.

Prerequisite(s):

MATH 121 Minimum Grade: C- or T

AND

CSCI 202 Minimum Grade: C- or T

OR

CSCI 205 Minimum Grade: C- or T

MATH 340 - Probability and Statistics

3 Credit(s)

A mathematically oriented introductory course in probability and statistics. Typical topics include counting techniques and laws of probability, independence, discrete and continuous random variable, distributions (normal, t, chi, square, F, Poisson, exponential, and sampling), regression correlation, confidence intervals and hypothesis testing, mathematical expectation, moment generating functions, the Central Limit Theorem, and point estimation.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 420 - Advanced Analysis I

3 Credit(s)

Rigorous presentation of the fundamental concepts and techniques of real analysis, including a careful study of continuity and convergence, sets and functions, sequences and series, limits and continuity, and differentiation.

Prerequisite(s):

MATH 220 Minimum Grade: C- OR T

AND

MATH 250 Minimum Grade: C- OR T

MATH 430 - Complex Analysis

3 Credit(s)

Theory of functions of one complex variable, including derivatives, integrals, power series, residues, and conformal mappings.

Prerequisite(s):

MATH 220 Minimum Grade: C- OR T

Note

The above corresponds to a minimum of 69 credits required with 8 upper-division MATH courses

Plus Additional Secondary Education Licensure Requirements from the School of Education

Bachelor of Arts, Secondary Education Licensure

Minor in Mathematics

Go to: Mathematics

Minor Requirements

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite

integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

MATH 220 - Calculus III

4 Credit(s)

This course is an introduction to the calculus of functions of several variables. Typical topics include three-dimensional analytic geometry, vectors, parametric curves and surfaces, arc length and curvature, limits, continuity, partial derivatives, gradients, directional derivatives, tangent planes, multiple integrals, vector fields, line and surface integrals, Green's theorem, Stokes' Theorem, and the divergence theorem.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 250 - Introduction to Mathematical Thought

3 Credit(s)

This course looks at topics central to further study in mathematics. These include symbolic logic, especially as it applies to mathematical proof; methods of mathematical proof such as direct proof, indirect proof, and by induction; use and meaning of mathematical quantifiers and predicates; sets; relations; equivalence relations and partitions; order relations; and functions and their properties.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

- MATH 3XX Electives approved by the dept. Chair.

School of Visual & Performing Arts (SVPA)

Director

- **Dr. John Taylor**

Programs

- Art
- Music
- Theatre

Art

Return to: [School of Visual & Performing Arts \(SVPA\)](#)

The Art Department curriculum is designed to prepare students for careers as professional artists, designers, and art educators. All students taking art classes, both majors and non-majors, are challenged to think and solve problems creatively, to develop their ability to communicate through visual, oral and written languages, and to understand the role of the visual arts in multiple cultures and its relationship to past and present theory. A major in art may also be attractive to students who do not know precisely which career they wish to pursue after graduation. A well-rounded liberal arts program provides many opportunities for students able to benefit from a small department devoted to the development of the individual and to academic excellence.

Faculty

Department Co-Chairs

- Professor Margaret Doell
- Dr. John Taylor

Galleries

- Assistant Professor Bill Tite, Coordinator

Assistant Professors

- Anthony P. Guntren, M.F.A.
- Beth Johnston, M.F.A.
- Bill Tite, M.F.A.
- Mary Wilhelm, M.F.A.

Visiting Assistant Professors

- Annaliesa Simone Connor-Meissner, M.A.

Course List

All Art Courses

Associate of Arts, Studio Art Emphasis

Go to: Art

As part of the Graduation Requirements for Undergraduates, Complete:

General Education Requirements (31 Credits Total)

Area I. Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score,

or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T

OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II. Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T
AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III. Mathematics (3 credits)

MATH 104 - Finite Mathematics GT-MA1

3 Credit(s)

Topics covered include functions and their graphs, matrices, linear programming, probability, and descriptive statistics. Applications are presented from the areas of biology, business, behavioral sciences, economics, and the social sciences.

Prerequisite(s):

MATH 97 Minimum Grade: S-C or T
OR

MATH 99 Minimum Grade: S-C or T

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

ACT Math - Minimum Score: 19

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers.

Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T

OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Area IV. Social and Behavioral Sciences/History (9 credits)

- at least one course must be a GT-SS*
- At least one course must be a GT-HII course
- the remaining course may come from either category
- Only one ECON course may be used towards the requirements in this General Education area

GT-SS* Courses

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

GT-HI1 Courses

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V. Physical and Natural Sciences (7 Credits)

One credit must be a lab:

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course

includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430
AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

CHEM 103 - Introduction to Forensic Chemistry GT-SC1

4 Credit(s)

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

CHEM 103L - Introduction to Forensic Chemistry Lab GT-SC1

0 Credit(s)

Required companion laboratory to CHEM 103.

Co-requisite(s): CHEM 103

CHEM 104 - Chemistry in Context GT-SC2

3 Credit(s)

This course is designed to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and in significant issues facing science, technology, and society.

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2

3 Credit(s)

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

Required Core courses

AR 105 - Introduction to Art Criticism

3 Credit(s)

This course introduces students to art criticism and critical thinking in the field of visual art. Exercises in reading about art, observing art, and talking and writing about art, will develop the student's ability to discuss their own work and a wide variety of artworks by others. Students will be introduced to and practice techniques for reading, thinking, writing, and speaking critically as applied to art.

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

AR 252 - Beginning 3D - Form and Extended Media

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to fabrication and subtractive processes and materials. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in introductory metal fabrication, CAD/CAM technology, metal casting, and wood or stone carving. This course has a course specific fee to cover the costs of some materials.

Choose 1-3 courses from the following

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

Choose 1-3 courses from the following

- AR 3XX - 3D FXM Rotator **3 Credit(s)**

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-

OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-

OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing

3 Credit(s)

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

Total completion of a minimum of 60 credits for this degree

Bachelor of Arts in Art Education, K-12 Licensure

Go to: Bachelor of Arts, K-12 Education Licensure

Go to: Art

Choose this degree if your goal is to specifically teach art in a K-12 classroom. As an Art Education major, you will spend time developing your personal artistic skills. However, you will also engage in educational theories, explore teaching methods, and participate in field experiences that are all required for teaching certification. Art Education majors have an advisor in both the Art and Education departments.

Degree Requirements

Art Requirements (51-54 Credits)

AR 105 - Introduction to Art Criticism

3 Credit(s)

This course introduces students to art criticism and critical thinking in the field of visual art. Exercises in reading about art, observing art, and talking and writing about art, will develop the student's ability to discuss their own work and a wide variety of artworks by others. Students will be introduced to and practice techniques for reading, thinking, writing, and speaking critically as applied to art.

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time

based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

AR 216 - Introduction to Art Education

3 Credit(s)

This course is a study of art education as influenced by educational and philosophical developments throughout history as well as an exploration of current art education topics and approaches for teaching art in traditional and non-traditional settings. A background check must be completed through the Department of Teacher Education. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

Teacher Education Background Check Passed

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 252 - Beginning 3D - Form and Extended Media

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to fabrication and subtractive processes and materials. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in introductory metal fabrication, CAD/CAM technology, metal casting, and wood or stone carving. This course has a course specific fee to cover the costs of some materials.

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

OR

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

OR

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

AR 334 - Elementary School Art Education Methods

3 Credit(s)

A course designed to explore the theoretical and practical approaches to implementing a program of art education for grades K-6. Emphasis is placed on strategies that will encourage a discipline-based art education model of instruction. Through hands-on involvement in various art media, students are given opportunities for creative problem solving. A background check must be completed through the Department of Teacher Education. This course has a course specific fee to cover the costs of some materials. A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Teacher Education Background Check Passed

AND

AR 216 Minimum Grade: C OR T

AND

ED 200 Minimum Grade: C OR T

OR

ED 220 Minimum Grade: C OR T

AR 335 - Secondary School Art Education Methods

3 Credit(s)

In this advanced course of study, students are given the opportunity to explore more completely those professional practices utilized in the teaching of art in the secondary school. Through hands-on involvement in various media, students are given opportunities for creative problem solving. This course is intended for juniors and seniors. Freshmen and sophomores cannot enroll in this course. A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

ED 200 Minimum Grade: C OR T

OR

ED 220 Minimum Grade: C OR T

AND

AR 334 Minimum Grade: C OR T

AND

Teacher Education Background Check Passed

AR 364 - History of Art I

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms prehistoric times to the Eighteenth Century.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 365 - History of Art II

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms from the 18th Century to the 21st Century. Additionally this course includes a brief survey of the arts of African, Asian, and Native American cultures.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

Plus 3 Hours From The Following:

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 306 - Illustrator

3 Credit(s)

This course is an advanced design class. Using Adobe Illustrator, students will study design concepts related to computer graphics, illustration, and typography as well as historical traditions in graphic design.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

AR 310 - Photoshop

3 Credit(s)

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

Art Emphasis Area

Complete a 9 hour area of emphasis in one of the following areas: Art History, Drawing, Painting, Photography, Printmaking, Form and Extended Media (these 9 hours will include classes from the above areas, to add a minimum of 3 hours or a maximum of 6 hours depending on the chosen emphasis).

Plus Additional K-12 Licensure Requirements from the School of Education

Bachelor of Arts, K-12 Education Licensure

Bachelor of Arts in Elementary Education Licensure, Art Emphasis

Go to: Bachelor of Arts in Elementary Education

Go to: Art

Complete Required Art Courses for Art Emphasis

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

AR 334 - Elementary School Art Education Methods

3 Credit(s)

A course designed to explore the theoretical and practical approaches to implementing a program of art education for grades K-6. Emphasis is placed on strategies that will encourage a discipline-based art education model of instruction. Through hands-on involvement in various art media, students are given opportunities for creative problem solving. A background check must be completed through the Department of Teacher Education. This course has a course specific fee to cover the costs of some materials. A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Teacher Education Background Check Passed

AND

AR 216 Minimum Grade: C OR T

AND

ED 200 Minimum Grade: C OR T

OR

ED 220 Minimum Grade: C OR T

AR 364 - History of Art I

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms prehistoric times to the Eighteenth Century.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

OR

AR 365 - History of Art II

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms from the 18th Century to the 21st Century. Additionally this course includes a brief survey of the arts of African, Asian, and Native American cultures.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

OR

AR 367 - Women Artists in Art History

3 Credit(s)

A survey of women artists in the history of art from antiquity to the present.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

Plus Additional Elementary Education Licensure Requirements from the School of Education

Bachelor of Arts in Elementary Education

Bachelor of Arts in Liberal Arts, Studio Art

Go to: Art

This degree offers you the opportunity to explore several different mediums and discipline areas that will challenge your creative thinking and problem-solving skills. Our program prepares you for a wide variety of creative career tracks which can be complemented by a minor in Theatre or another field.

Specific Courses Required for This Degree

A. Required Studio Core (18 Credits)

Students may be excused from basic studio courses on the merit of a portfolio (art studio) by the department chair.

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

AR 252 - Beginning 3D - Form and Extended Media

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to fabrication and subtractive processes and materials. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in introductory metal fabrication, CAD/CAM technology, metal casting, and wood or stone carving. This course has a course specific fee to cover the costs of some materials.

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative

expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

AR 498 - Professional Practice

3 Credit(s)

Designed to be the capstone experience for all students who have majored in Art. Students will organize a group exhibition of their work and prepare portfolios and other tools for professional futures. Emphasis will be placed on responsible teamwork and professionalism.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

B. Required Art History & Theory Core (12 Credits)

AR 105 - Introduction to Art Criticism

3 Credit(s)

This course introduces students to art criticism and critical thinking in the field of visual art. Exercises in reading about art, observing art, and talking and writing about art, will develop the student's ability to discuss their own work and a wide variety of artworks by others. Students will be introduced to and practice techniques for reading, thinking, writing, and speaking critically as applied to art.

AR 305 - Art Theory

3 Credit(s)

A lecture course that covers major themes in art theory and asks students to articulate which aspects of art theory relate to their studio work and how they relate.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AND

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

AR 364 - History of Art I

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms prehistoric times to the Eighteenth Century.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 365 - History of Art II

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms from the 18th Century to the 21st Century. Additionally this course includes a brief survey of the arts of African, Asian, and Native American cultures.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

C. Plus 6 Hours from the Following (2D Electives)

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on

photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR 320 - Intermediate Painting I

3 Credit(s)

Intermediate study of painting media with emphasis on perceptual abilities and personal expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- or T

AND

AR 220 Minimum Grade: C- or T

D. Plus 6 Hours from the Following (3D Electives)

- AR 3XX - 3D Material Studies Rotator

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of

some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing

3 Credit(s)

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

E. Plus 3 Hours from the Following

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 306 - Illustrator

3 Credit(s)

This course is an advanced design class. Using Adobe Illustrator, students will study design concepts related to computer graphics, illustration, and typography as well as historical traditions in graphic design.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

AR 310 - Photoshop

3 Credit(s)

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

F. Complete One or More 12-hour Area of Emphasis in One of the Following Areas

- Art History
- Drawing
- Painting
- Graphic Design
- Photography
- Form and Extended Media

G. Completion of Departmental Assessment Procedures

Additional credits in the major are to be selected in consultation with your advisor.

Bachelor of Fine Arts in 3D Form and Extended Media

Go to: Art

Specific courses required for this degree:

Core Requirements (75 Credits)

AR 105 - Introduction to Art Criticism

3 Credit(s)

This course introduces students to art criticism and critical thinking in the field of visual art. Exercises in reading about art, observing art, and talking and writing about art, will develop the student's ability to discuss their own work and a wide variety of artworks by others. Students will be introduced to and practice techniques for reading, thinking, writing, and speaking critically as applied to art.

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

AR 252 - Beginning 3D - Form and Extended Media

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to fabrication and subtractive processes and materials. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in introductory metal fabrication, CAD/CAM technology, metal casting, and wood or stone carving. This course has a course specific fee to cover the costs of some materials.

AR 364 - History of Art I

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms prehistoric times to the Eighteenth Century.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 365 - History of Art II

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms from the 18th Century to the 21st Century. Additionally this course includes a brief survey of the arts of African, Asian, and Native American cultures.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

- AR 3XX - Art History/Theatre History **3 Credit(s)**

AR 305 - Art Theory

3 Credit(s)

A lecture course that covers major themes in art theory and asks students to articulate which aspects of art theory relate to their studio work and how they relate.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AND

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

AR 405 - Seminar in Art

3 Credit(s)

This course is a seminar class that combines research into art theory and art history with discussions about the conceptual, formal and technical aspects of studio work.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

AR 498 - Professional Practice

3 Credit(s)

Designed to be the capstone experience for all students who have majored in Art. Students will organize a group exhibition of their work and prepare portfolios and other tools for professional futures. Emphasis will be placed on responsible teamwork and professionalism.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

AR XXX: 2D Elective (3 Hours)

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR XXX: Design Elective

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 306 - Illustrator

3 Credit(s)

This course is an advanced design class. Using Adobe Illustrator, students will study design concepts related to computer graphics, illustration, and typography as well as historical traditions in graphic design.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

AR 310 - Photoshop

3 Credit(s)

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

3D Material Studies Core

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 454 - Advanced 3D Material Study I

3 Credit(s)

Students will engage in advanced sculptural work using diverse materials. This course offers studio assignments that question and solidify artistic vocabulary and studio work. Curriculum includes regular seminar discussions and presentations based on assigned readings and local lectures. Contemporary issues and ideas in sculpture and material studies are a primary focus of these discussions. This course places a strong emphasis on establishing studio works and complete artist's portfolios. There is a specific course fee to cover the cost of some materials.

AR 497 - BFA Exhibition

6 Credit(s)

A capstone course that involves the creation and exhibition of a cohesive body of creative work.

Prerequisite(s):

BFA Thesis Passed

Co-requisite(s): AR 498

Plus 12 Hours From

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing

3 Credit(s)

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking**3 Credit(s)**

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

Bachelor of Fine Arts in Drawing

Go to: Art

Specific courses required for this degree:

Core Requirements (75 Credits)**AR 105 - Introduction to Art Criticism****3 Credit(s)**

This course introduces students to art criticism and critical thinking in the field of visual art. Exercises in reading about art, observing art, and talking and writing about art, will develop the student's ability to discuss their own work and a wide variety of artworks by others. Students will be introduced to and practice techniques for reading, thinking, writing, and speaking critically as applied to art.

AR 206 - Studio One**3 Credit(s)**

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two**3 Credit(s)**

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

AR 252 - Beginning 3D - Form and Extended Media

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to fabrication and subtractive processes and materials. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in introductory metal fabrication, CAD/CAM technology, metal casting, and wood or stone carving. This course has a course specific fee to cover the costs of some materials.

AR 364 - History of Art I

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms prehistoric times to the Eighteenth Century.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 365 - History of Art II

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms from the 18th Century to the 21st Century. Additionally this course includes a brief survey of the arts of African, Asian, and Native American cultures.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

- AR 3XX - Art History/Theatre History **3 Credit(s)**

AR 305 - Art Theory

3 Credit(s)

A lecture course that covers major themes in art theory and asks students to articulate which aspects of art theory relate to their studio work and how they relate.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AND

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

AR 405 - Seminar in Art

3 Credit(s)

This course is a seminar class that combines research into art theory and art history with discussions about the conceptual, formal and technical aspects of studio work.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

AR 498 - Professional Practice

3 Credit(s)

Designed to be the capstone experience for all students who have majored in Art. Students will organize a group exhibition of their work and prepare portfolios and other tools for professional futures. Emphasis will be placed on responsible teamwork and professionalism.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

AR XXX: 2D Elective (3 Hours)

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR XXX: 3D Elective (3 Hours)

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-

OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing

3 Credit(s)

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course

emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-

OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

AR XXX: 2D or 3D Elective (3 Hours)

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 320 - Intermediate Painting I

3 Credit(s)

Intermediate study of painting media with emphasis on perceptual abilities and personal expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- or T

AND

AR 220 Minimum Grade: C- or T

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing

3 Credit(s)

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

AR XXX: Design Elective

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 306 - Illustrator

3 Credit(s)

This course is an advanced design class. Using Adobe Illustrator, students will study design concepts related to computer graphics, illustration, and typography as well as historical traditions in graphic design.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

AR 310 - Photoshop

3 Credit(s)

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

Drawing Emphasis

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR 309 - Intermediate Drawing II

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 308 Minimum Grade: C- OR T

AR 410 - Advanced Drawing I

3 Credit(s)

Advanced personal concepts, media experimentation, and aesthetics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 309 Minimum Grade: C- OR T

AR 411 - Advanced Drawing II

3 Credit(s)

Exploration of drawing as a medium for expression with emphasis on developing a personal style. Progress towards developing a cohesive body of work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 410 Minimum Grade: C- OR T

Plus 6 Credits From

- AR XXX - Art Studio Elective **3 Credit(s)**

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 360 - Intermediate Printmaking

3 Credit(s)

Further exploration of printmaking using all processes. Emphasis on composition, media exploration, and color processes. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 260 Minimum Grade: C- OR T
OR

AR 261 Minimum Grade: C- OR T

AR 497 - BFA Exhibition

6 Credit(s)

A capstone course that involves the creation and exhibition of a cohesive body of creative work.

Prerequisite(s):

BFA Thesis Passed

Co-requisite(s): AR 498

- Elective Credits **14 Credit(s)**

Bachelor of Fine Arts in Graphic Design

Go to: Art

Specific courses required for this degree:

Core Requirements (75 Credits)

AR 105 - Introduction to Art Criticism

3 Credit(s)

This course introduces students to art criticism and critical thinking in the field of visual art. Exercises in reading about art, observing art, and talking and writing about art, will develop the student's ability to discuss their own work and a wide variety of artworks by others. Students will be introduced to and practice techniques for reading, thinking, writing, and speaking critically as applied to art.

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 252 - Beginning 3D - Form and Extended Media

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to fabrication and subtractive processes and materials. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in introductory metal fabrication, CAD/CAM technology, metal casting, and wood or stone carving. This course has a course specific fee to cover the costs of some materials.

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 364 - History of Art I

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms prehistoric times to the Eighteenth Century.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 365 - History of Art II

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms from the 18th Century to the 21st Century. Additionally this course includes a brief survey of the arts of African, Asian, and Native American cultures.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 281 - Beginning Digital Photography**3 Credit(s)**

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

- AR 3XX - Art History/Theatre History **3 Credit(s)**

AR 305 - Art Theory**3 Credit(s)**

A lecture course that covers major themes in art theory and asks students to articulate which aspects of art theory relate to their studio work and how they relate.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AND

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

AR 405 - Seminar in Art**3 Credit(s)**

This course is a seminar class that combines research into art theory and art history with discussions about the conceptual, formal and technical aspects of studio work.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

AR 498 - Professional Practice**3 Credit(s)**

Designed to be the capstone experience for all students who have majored in Art. Students will organize a group exhibition of their work and prepare portfolios and other tools for professional futures. Emphasis will be placed on responsible teamwork and professionalism.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

AR XXX: 2D Elective (3 Hours)

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR 320 - Intermediate Painting I

3 Credit(s)

Intermediate study of painting media with emphasis on perceptual abilities and personal expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- or T
AND

AR 220 Minimum Grade: C- or T

AR XXX: 3D Elective (3 Hours)

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the

costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing

3 Credit(s)

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of

three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

AR XXX: 2D or 3D Elective (3 Hours)

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it

applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR 320 - Intermediate Painting I

3 Credit(s)

Intermediate study of painting media with emphasis on perceptual abilities and personal expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- or T

AND

AR 220 Minimum Grade: C- or T

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing

3 Credit(s)

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

15 Credits From

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 301 - Typography

3 Credit(s)

This course is intended primarily for art majors who chose graphic design as their area of emphasis. It is also open to any other art major or non-art major. This course will focus on a broad study of typography, its terminology, history, and application in the field of graphic design.

Prerequisite(s):

AR 206 Minimum Grade: C- OR T

AR 306 - Illustrator

3 Credit(s)

This course is an advanced design class. Using Adobe Illustrator, students will study design concepts related to computer graphics, illustration, and typography as well as historical traditions in graphic design.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T

OR

AR 281 Minimum Grade: C- OR T

AR 310 - Photoshop

3 Credit(s)

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T

OR

AR 281 Minimum Grade: C- OR T

AR 312 - Design for the Internet

3 Credit(s)

This course will provide an introduction to theories and practical experience with graphic design as applied to the Internet. Students will study the basics in web page and web site design using current industry standard software, HTML and XHTML. Within the course, students will create web pages and sites suitable for course work, professional

purposes, and personal use. Students will also explore common web page formats and functions. Emphasis will be on the aesthetics of Internet design.

AR 401 - Advanced Graphic Design

3 Credit(s)

An advanced study of the design relating to the work of the graphic designer. Students learn PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 306 Minimum Grade: C- OR T
AND

AR 310 Minimum Grade: C- OR T

AR 381 - Intermediate Digital Photography

3 Credit(s)

Continued exploration of digital photography as an art medium. The course will delve further into photographic applications in Adobe Photoshop with emphasis on maximizing image quality using masks and blending modes. Introduction to fine art printing and papers. Emphasis on concept and creative expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 281 Minimum Grade: C- OR T

- ART Studio Elective **3 Credit(s)**

AR 497 - BFA Exhibition

6 Credit(s)

A capstone course that involves the creation and exhibition of a cohesive body of creative work.

Prerequisite(s):

BFA Thesis Passed

Co-requisite(s): AR 498

Elective Credits (14 Credits)

Bachelor of Fine Arts in Painting

Go to: Art

Specific courses required for this degree:

Core Requirements

AR 105 - Introduction to Art Criticism

3 Credit(s)

This course introduces students to art criticism and critical thinking in the field of visual art. Exercises in reading about art, observing art, and talking and writing about art, will develop the student's ability to discuss their own work and a wide variety of artworks by others. Students will be introduced to and practice techniques for reading, thinking, writing, and speaking critically as applied to art.

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

AR 252 - Beginning 3D - Form and Extended Media

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to fabrication and subtractive processes and materials. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in introductory metal fabrication, CAD/CAM technology, metal casting, and wood or stone carving. This course has a course specific fee to cover the costs of some materials.

AR 364 - History of Art I

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms prehistoric times to the Eighteenth Century.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 365 - History of Art II

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms from the 18th Century to the 21st Century. Additionally this course includes a brief survey of the arts of African, Asian, and Native American cultures.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

- AR 3XX - Art History/Theatre History **3 Credit(s)**

AR 305 - Art Theory

3 Credit(s)

A lecture course that covers major themes in art theory and asks students to articulate which aspects of art theory relate to their studio work and how they relate.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T
AND

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

AR 405 - Seminar in Art

3 Credit(s)

This course is a seminar class that combines research into art theory and art history with discussions about the conceptual, formal and technical aspects of studio work.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

AR 498 - Professional Practice

3 Credit(s)

Designed to be the capstone experience for all students who have majored in Art. Students will organize a group

exhibition of their work and prepare portfolios and other tools for professional futures. Emphasis will be placed on responsible teamwork and professionalism.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

AR XXX: 2D Elective (3 Hours)

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR XXX: 3D Elective (3 Hours)**AR 253 - Ceramics: Handbuilding****3 Credit(s)**

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 352 - Molding Design and Cold Casting**3 Credit(s)**

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting**3 Credit(s)**

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing

3 Credit(s)

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

AR XXX: 2D or 3D Elective (3 Hours)

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR 320 - Intermediate Painting I

3 Credit(s)

Intermediate study of painting media with emphasis on perceptual abilities and personal expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- or T
AND

AR 220 Minimum Grade: C- or T

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing

3 Credit(s)

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course

emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-

OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

AR XXX: Design Elective

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 306 - Illustrator

3 Credit(s)

This course is an advanced design class. Using Adobe Illustrator, students will study design concepts related to computer graphics, illustration, and typography as well as historical traditions in graphic design.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

AR 310 - Photoshop**3 Credit(s)**

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

Emphasis Requirements**AR 209 - Beginning Drawing II****3 Credit(s)**

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 220 - Painting**3 Credit(s)**

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 308 - Intermediate Drawing I**3 Credit(s)**

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR 320 - Intermediate Painting I

3 Credit(s)

Intermediate study of painting media with emphasis on perceptual abilities and personal expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- or T
AND

AR 220 Minimum Grade: C- or T

AR 321 - Intermediate Painting II

3 Credit(s)

Intermediate study of painting media with emphasis on perceptual abilities and personal expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 320 Minimum Grade: C- OR T

AR 422 - Advanced Painting I

3 Credit(s)

Advanced studio problems, emphasizing perceptual and conceptual abilities and personal expression as related to painting media. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 321 Minimum Grade: C- OR T

AR 423 - Advanced Painting II

Advanced studio problems, emphasizing perceptual and conceptual abilities and personal expression as related to painting media. This course has a course specific fee to cover the costs of some materials.

AR 497 - BFA Exhibition

6 Credit(s)

A capstone course that involves the creation and exhibition of a cohesive body of creative work.

Prerequisite(s):

BFA Thesis Passed

Co-requisite(s): AR 498

Elective Credits (14 Credits)

Bachelor of Fine Arts in Photography

Go to: Art

Specific courses required for this degree:

Core Requirements

AR 105 - Introduction to Art Criticism

3 Credit(s)

This course introduces students to art criticism and critical thinking in the field of visual art. Exercises in reading about art, observing art, and talking and writing about art, will develop the student's ability to discuss their own work and a wide variety of artworks by others. Students will be introduced to and practice techniques for reading, thinking, writing, and speaking critically as applied to art.

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

AR 252 - Beginning 3D - Form and Extended Media

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to fabrication and subtractive processes and materials. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation.

Projects may include content in introductory metal fabrication, CAD/CAM technology, metal casting, and wood or stone carving. This course has a course specific fee to cover the costs of some materials.

AR 364 - History of Art I

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms prehistoric times to the Eighteenth Century.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 365 - History of Art II

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms from the 18th Century to the 21st Century. Additionally this course includes a brief survey of the arts of African, Asian, and Native American cultures.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

- AR 3XX - Art History/Theatre History **3 Credit(s)**

AR 305 - Art Theory

3 Credit(s)

A lecture course that covers major themes in art theory and asks students to articulate which aspects of art theory relate to their studio work and how they relate.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AND

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

AR 405 - Seminar in Art

3 Credit(s)

This course is a seminar class that combines research into art theory and art history with discussions about the conceptual, formal and technical aspects of studio work.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

AR 498 - Professional Practice

3 Credit(s)

Designed to be the capstone experience for all students who have majored in Art. Students will organize a group exhibition of their work and prepare portfolios and other tools for professional futures. Emphasis will be placed on responsible teamwork and professionalism.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

AR XXX: 2D Elective (3 Hours)

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR XXX: 3D Elective (3 Hours)

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and

support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing

3 Credit(s)

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

AR XXX: 2D or 3D Elective (3 Hours)

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it

applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR 320 - Intermediate Painting I

3 Credit(s)

Intermediate study of painting media with emphasis on perceptual abilities and personal expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- or T

AND

AR 220 Minimum Grade: C- or T

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing

3 Credit(s)

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

AR XXX: Design Elective

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 306 - Illustrator

3 Credit(s)

This course is an advanced design class. Using Adobe Illustrator, students will study design concepts related to computer graphics, illustration, and typography as well as historical traditions in graphic design.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

AR 310 - Photoshop

3 Credit(s)

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

Photography Emphasis Requirements

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 380 - Intermediate Photography

3 Credit(s)

Continued exploration of photography as an art medium using traditional darkroom techniques. Emphasis on concept and creative expression. Introduction to color, pinhole, large format, and non-silver techniques. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 280 Minimum Grade: C- OR T

AR 381 - Intermediate Digital Photography

3 Credit(s)

Continued exploration of digital photography as an art medium. The course will delve further into photographic applications in Adobe Photoshop with emphasis on maximizing image quality using masks and blending modes. Introduction to fine art printing and papers. Emphasis on concept and creative expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 281 Minimum Grade: C- OR T

AR 484 - Advanced Photography I

3 Credit(s)

Continued exploration of photography as an art medium with emphasis on expression and technique. Emphasis on development of a personal style and approach to the medium. Students will work with the instructor to determine techniques appropriate for their individual goals. Digital Techniques will be emphasized during the spring semester and traditional techniques in the fall semester. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 380 Minimum Grade: C- OR T

OR

AR 381 Minimum Grade: C- OR T

AR 485 - Advanced Photography II

3 Credit(s)

Continued exploration of photography as an art medium with emphasis on expression and technique. Emphasis on development of a personal style and approach to the medium. Students will work with the instructor to determine techniques appropriate for their individual goals. Digital Techniques will be emphasized during the spring semester and traditional techniques in the fall semester. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 484 Minimum Grade: C- OR T

AR 497 - BFA Exhibition

6 Credit(s)

A capstone course that involves the creation and exhibition of a cohesive body of creative work.

Prerequisite(s):

BFA Thesis Passed

Co-requisite(s): AR 498

AR XXX: Art Studio Elective (3 Hours)

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 306 - Illustrator

3 Credit(s)

This course is an advanced design class. Using Adobe Illustrator, students will study design concepts related to computer graphics, illustration, and typography as well as historical traditions in graphic design.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

AR 310 - Photoshop

3 Credit(s)

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR 320 - Intermediate Painting I

3 Credit(s)

Intermediate study of painting media with emphasis on perceptual abilities and personal expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- or T
AND

AR 220 Minimum Grade: C- or T

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing

3 Credit(s)

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

Minor in Art

Go to: Art

The art minor consists of 18 credit hours (6 courses) that can be taken alongside your major requirements during any semester at Adams. You can choose to take courses in any art discipline or you can take several courses within one studio areas. If you are interested in adding an Art minor to your degree you will need an art faculty advisor. Contact the Department Chair for more information.

Degree Requirements

Required Core

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

Plus One or More of the Following

AR 105 - Introduction to Art Criticism

3 Credit(s)

This course introduces students to art criticism and critical thinking in the field of visual art. Exercises in reading about art, observing art, and talking and writing about art, will develop the student's ability to discuss their own work and a wide variety of artworks by others. Students will be introduced to and practice techniques for reading, thinking, writing, and speaking critically as applied to art.

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

AR 252 - Beginning 3D - Form and Extended Media

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to fabrication and subtractive processes and materials. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in introductory metal fabrication, CAD/CAM technology, metal casting, and wood or stone carving. This course has a course specific fee to cover the costs of some materials.

AR 3XX: 3D Form & Media Rotator (3 Hours)

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs

of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing

3 Credit(s)

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

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3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including

handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

Music

Return to: School of Visual & Performing Arts (SVPA)

Music at Adams State is an active and vital program, committed to musical excellence within a small college environment. The Colorado Commission on Higher Education designated the Adams State Department of Music a Program of Excellence, one of three Adams State programs to have received this honor.

Adams State University is an accredited institutional member of the National Association of Schools of Music. The Department of Music offers Bachelor of Arts degrees in music education (K-12) and music with emphases in liberal arts, music business and recording, music performance, or music composition. Students in any area of emphasis should have the preparation and background necessary to succeed in their chosen fields.

Faculty

Program Chairs

- Dr. Beth Robison
- Dr. Matthew Schildt

Music Education (graduate)

- Dr. Matthew Schildt, Coordinator

Professors

- William Lipke, D.M.A.
- Beth Robison, D.M.A.
- Matthew Schildt, Ph.D.

Assistant Professors

- Amy Johnson, M.M.
- Melinda Leoce, M.M.
- Brooke Miller, D.M.A.

Visiting Assistant Professors

- James Lind, D.M.A.

Course List

All Music Courses

Bachelor of Arts in Elementary Education Licensure, Music Emphasis

Go to: Bachelor of Arts in Elementary Education
Go to: Music

Required Courses in Music

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

MUS 101 - Music Fundamentals

2 Credit(s)

An introductory course for music majors and minors that includes the fundamentals of music theory, notation, and basic aural skills. May not be counted as credit towards a music degree.

MUS 103 - Introduction to Music Technology

1 Credit(s)

An introduction to music technology, covering a broad range of topics such as music notation, MIDI, music sequencing, mixing, and basic audio editing. The programs to be used include Finale, Garageband, and Audacity, and students compose music utilizing basic concepts of music fundamentals and music theory. The goal of this course is to equip students with music technology skills and knowledge that will be of benefit during their collegiate and professional careers.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 120 - Class Piano I

1 Credit(s)

A study of beginning keyboard techniques with emphasis on the skills needed to fulfill the piano proficiency requirement.

MUS 121 - Class Piano II

1 Credit(s)

A study of intermediate keyboard techniques with emphasis on the skills needed to fulfill the piano proficiency requirement.

Prerequisite(s):

MUS 120 Minimum Grade: C- OR T

MUS 130 - Secondary Applied Music

1 Credit(s)

Private instruction in applied music. Applicable to a music degree only as secondary applied credit. May be repeated for credit (eight hours maximum).

MUS 247 - Concert Choir

1 Credit(s)

Open to all qualified students with repertoire selected from the standard choral concert literature. May be repeated for credit.

OR

MUS 257 - Chamber Choir

1 Credit(s)

An advanced mixed choral ensemble, open to students by audition. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

MUS 399 - Independent Study (Practicum)

3 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

MUS 421 - Elementary School Music Methods

3 Credit(s)

A comprehensive study of principles, procedures and pedagogical approaches for teaching and administering music programs in elementary schools (grades K-6). A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation. Students must be enrolled in the Teacher Education Program.

Prerequisite(s):

ED 200 Minimum Grade: C OR T
AND

ED 220 Minimum Grade: C OR T

AND

MUS 304 Minimum Grade: C OR T

AND

MUS 360 Minimum Grade: C OR T

AND

Admission to the Educator Preparation Program

AND

Teacher Education Background Check Passed

Plus Additional Elementary Education Licensure Requirements from the School of Education

Bachelor of Arts in Elementary Education

Bachelor of Arts in Music Education, K-12 Licensure

Go to: Bachelor of Arts, K-12 Education Licensure

Go to: Music

Entrance Requirements

New music majors and minors are required to complete an entrance audition for admittance to the Department of Music.

Placement Examinations

- Transfer and new students in music must take placement examinations as appropriate in applied music and music theory.
- Students who have not been enrolled in applied music or music theory for two or more years must reaudition for admittance into the Department of Music and take a theory placement exam.

Specific Courses Required for this Degree

Completion of the Undergraduate General Education Requirements for the Bachelor of Arts degree, which must include MUS 100, plus the Bachelor of Arts, K-12 Education Licensure requirements.

Completion of the Following

MUS 000 - Recital Attendance

0 Credit(s)

A requirement for music majors and minors, which consists of attendance at a designated number of concerts/recitals each semester.

MUS 106 - Careers in the Music Industry

1 Credit(s)

The course provides a broad overview of the music industry, the career opportunities that are available, and effective methods of preparing for success in ones chosen career path.

MUS 103 - Introduction to Music Technology

1 Credit(s)

An introduction to music technology, covering a broad range of topics such as music notation, MIDI, music sequencing, mixing, and basic audio editing. The programs to be used include Finale, Garageband, and Audacity, and students compose music utilizing basic concepts of music fundamentals and music theory. The goal of this course is to equip students with music technology skills and knowledge that will be of benefit during their collegiate and professional careers.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 104 - Music Theory I

3 Credit(s)

Development of basic music skills and harmony with practical application through part-writing and composition.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 108 - Aural Skills I

1 Credit(s)

Foundational work in sight singing and written dictation.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 140 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

MUS 141 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 140 Minimum Grade: D OR T

MUS 204 - Music Theory II

3 Credit(s)

Advanced study in music writing and analysis with emphasis on tonal and chromatic harmony.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

MUS 208 - Aural Skills II

1 Credit(s)

Emphasis on sight singing in parts, more difficult keys and intervals, modulations, and rhythmic patterns in dictation.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

AND

MUS 108 Minimum Grade: C- OR T

Co-requisite(s): MUS 204

MUS 240 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 141 Minimum Grade: C- OR T

MUS 241 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 240 Minimum Grade: C- OR T

MUS 304 - Advanced Theory

3 Credit(s)

The study of advanced chromatic harmony and twentieth-century musical techniques through analysis and composition.

Prerequisite(s):

MUS 103 Minimum Grade: C- OR T
AND

MUS 104 Minimum Grade: C- OR T

AND

MUS 204 Minimum Grade: C- OR T

MUS 308 - Advanced Aural Skills

1 Credit(s)

Advanced sight singing and ear training, including harmonic and melodic dictation using chromatic intervals.

Prerequisite(s):

MUS 208 Minimum Grade: C- OR T

MUS 320 - Advanced Piano Class

1 Credit(s)

Advanced functional keyboard technique with emphasis on skills needed to fulfill the piano proficiency requirement.

Prerequisite(s):

MUS 220 Minimum Grade: C- OR T

MUS 322 - Percussion Methods

1 Credit(s)

A course designed to enable music education majors to gain a practical knowledge of percussion instruments and relevant pedagogy.

MUS 323 - Brass Methods

1 Credit(s)

A course designed to enable music education majors to gain a practical knowledge of brass instruments and relevant pedagogy.

MUS 324 - Woodwind Methods

1 Credit(s)

A course designed to enable music education majors to gain a practical knowledge of woodwind instruments and relevant pedagogy.

MUS 325 - String Methods

1 Credit(s)

A course designed to enable music education majors to gain a practical knowledge of string instruments and relevant pedagogy.

MUS 326 - Music History I

3 Credit(s)

A detailed survey of music history from antiquity to 1750.

Prerequisite(s):

MUS 100 Minimum Grade: C- OR T
AND

MUS 104 Minimum Grade: C- OR T

MUS 327 - Music History II

3 Credit(s)

A detailed survey of music history from 1750 to the present.

Prerequisite(s):

MUS 100 Minimum Grade: C- OR T
AND

MUS 104 Minimum Grade: C- OR T

MUS 333 - Form and Analysis

2 Credit(s)

This course examines the principal musical forms and structural elements of music from the Baroque period through the present. While the majority of the course covers western classical music and composers, forms in pop and rock music will also be covered. Students will be introduced to a variety of approaches and philosophies of musical analysis, accomplished through listening and analysis of musical repertoire. A principal outcome of this course is an increased awareness of the elements of musical form and how they are important in developing insight, understanding, and interpretation of a musical work.

Prerequisite(s):

MUS 304 Minimum Grade: C- or T
AND

MUS 308 Minimum Grade: C- or T

MUS 340 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 241 Minimum Grade: C- OR T

MUS 341 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 340 Minimum Grade: C- OR T

MUS 345 - Junior Recital

1 Credit(s)

Preparation and presentation of a public recital of approximately one-half hour of music.

Prerequisite(s):

MUS 340 Minimum Grade: C- OR T

OR

MUS 341 Minimum Grade: C- OR T

Co-requisite(s): MUS 341

MUS 360 - Conducting Techniques

2 Credit(s)

Development of fundamental conducting skills, score reading skills, musical concepts, and terminology.

Prerequisite(s):

MUS 204 Minimum Grade: C- OR T

AND

MUS 208 Minimum Grade: C- OR T

MUS 421 - Elementary School Music Methods

3 Credit(s)

A comprehensive study of principles, procedures and pedagogical approaches for teaching and administering music programs in elementary schools (grades K-6). A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background

check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation. Students must be enrolled in the Teacher Education Program.

Prerequisite(s):

ED 200 Minimum Grade: C OR T

AND

ED 220 Minimum Grade: C OR T

AND

MUS 304 Minimum Grade: C OR T

AND

MUS 360 Minimum Grade: C OR T

AND

Admission to the Educator Preparation Program

AND

Teacher Education Background Check Passed

MUS 422 - Secondary School Music Methods

3 Credit(s)

A comprehensive study of principles and procedures for teaching and administering music programs in secondary schools (grades 7-12). A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation. Students must be enrolled in the Teacher Education Program.

Prerequisite(s):

ED 200 Minimum Grade: C OR T

AND

ED 220 Minimum Grade: C OR T

AND

MUS 304 Minimum Grade: C OR T

AND

MUS 360 Minimum Grade: C OR T

AND

Admission to the Educator Preparation Program

AND

Teacher Education Background Check Passed

Completion of ONE of the Following Areas of Specialization

Choral

MUS 247 - Concert Choir

1 Credit(s)

Open to all qualified students with repertoire selected from the standard choral concert literature. May be repeated for credit.

OR

MUS 447 - Concert Choir

1 Credit(s)

This course is open to all qualified juniors and seniors, regardless of major, who perform a significant leadership role in the ensemble. Repertoire is selected from standard choral concert literature, as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

OR

MUS 257 - Chamber Choir

1 Credit(s)

An advanced mixed choral ensemble, open to students by audition. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

OR

MUS 457 - Chamber Choir

1 Credit(s)

This course is an advanced mixed choral ensemble, open by audition to junior and senior students who perform a significant leadership role in the ensemble. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

MUS 460 - Advanced Choral Conducting

2 Credit(s)

Advanced techniques for the choral conductor.

Prerequisite(s):

MUS 360 Minimum Grade: C- OR T

MUS 226 - Lyric Diction I

3 Credit(s)

A study of lyric diction and phonetic transcriptions of languages common to standard vocal repertoire. The course includes English, German, Spanish, and an introduction to the International Phonetic Alphabet.

MUS 227 - Lyric Diction II

3 Credit(s)

A study of lyric diction and phonetic transcriptions of languages common to standard vocal repertoire. The course includes Ecclesiastical Latin, Italian, French, and an introduction to the International Phonetic Alphabet.

Instrumental

MUS 245 - Concert Band

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard wind or percussion instrument. May be repeated for credit.

OR

MUS 451 - Concert Band

1 Credit(s)

This course is open to all qualified juniors and seniors, regardless of majors field, who demonstrate sufficient ability on a standard wind or percussion instrument and perform a significant leadership role in the ensemble. May be repeated for credit.

OR

MUS 250 - Orchestra

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard orchestral instrument. May be repeated for credit.

OR

MUS 450 - Orchestra

1 Credit(s)

Open by audition to Junior and Senior students who perform a significant leadership role in the orchestra. Repertoire is selected from standard orchestral literature. May be repeated for credit.

MUS 321 - Voice Methods

1 Credit(s)

A course designed to enable music education majors to gain a practical knowledge of the voice and relevant pedagogy. Not open to students whose principal instrument is voice.

MUS 461 - Advanced Instr Conducting

2 Credit(s)

Advanced techniques for the instrumental conductor.

Prerequisite(s):

MUS 360 Minimum Grade: C- OR T

MUS 486 - Marching Band Techniques

2 Credit(s)

Designed to help the band director chart marching band shows and deal with the logistics and techniques needed to manage the marching band.

Prerequisite(s):

MUS 422 Minimum Grade: C- OR T

Completion of both an Upper-Division Jury Exam and a Piano Proficiency Exam

Plus Additional K-12 Licensure Requirements from the School of Education

Bachelor of Arts, K-12 Education Licensure

Bachelor of Arts in Music, Emphasis in Composition

Go to: Music

Entrance Requirements

New music majors and minors are required to complete an entrance audition for admittance to the Department of Music.

Placement Examinations

- Transfer and new students in music must take placement examinations as appropriate in applied music and music theory.
- Students who have not been enrolled in applied music or music theory for two or more years must reaudition for admittance into the Department of Music and take a theory placement exam.

Completion of the Following

MUS 000 - Recital Attendance

0 Credit(s)

A requirement for music majors and minors, which consists of attendance at a designated number of concerts/recitals each semester.

MUS 106 - Careers in the Music Industry

1 Credit(s)

The course provides a broad overview of the music industry, the career opportunities that are available, and effective methods of preparing for success in ones chosen career path.

FYS 101 - First Year Seminar

1 to 3 Credit(s)

First-year students launch into the Adams Experience through a First-Year Seminar (FYS) course. FYS will engage students by creating habits for success, learning to navigate college life, and build skills for success. Each FYS will focus on a unique topic that will be the theme of course discussions, experiences, and assignments. FYS will develop academic and social capital and support a successful transition into higher education, instill lifelong learning, and reinforce student persistence.

MUS 103 - Introduction to Music Technology

1 Credit(s)

An introduction to music technology, covering a broad range of topics such as music notation, MIDI, music sequencing, mixing, and basic audio editing. The programs to be used include Finale, Garageband, and Audacity, and students compose music utilizing basic concepts of music fundamentals and music theory. The goal of this course is to equip students with music technology skills and knowledge that will be of benefit during their collegiate and professional careers.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 104 - Music Theory I

3 Credit(s)

Development of basic music skills and harmony with practical application through part-writing and composition.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 108 - Aural Skills I

1 Credit(s)

Foundational work in sight singing and written dictation.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 140 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

MUS 141 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 140 Minimum Grade: D OR T

MUS 204 - Music Theory II

3 Credit(s)

Advanced study in music writing and analysis with emphasis on tonal and chromatic harmony.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

MUS 208 - Aural Skills II

1 Credit(s)

Emphasis on sight singing in parts, more difficult keys and intervals, modulations, and rhythmic patterns in dictation.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

AND

MUS 108 Minimum Grade: C- OR T

Co-requisite(s): MUS 204

MUS 240 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 141 Minimum Grade: C- OR T

MUS 241 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 240 Minimum Grade: C- OR T

MUS 242 - Applied Music - Composition

2 Credit(s)

This course will provide private instruction in basic music composition. May be repeated for credit (four hours maximum).

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

MUS 243 - Applied Music - Composition

2 Credit(s)

This course will provide further private instruction in basic music composition. May be repeated for credit (four hours maximum). This course requires instructor approval for registration purposes.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

AND

MUS 242 Minimum Grade: C- OR T

MUS 304 - Advanced Theory

3 Credit(s)

The study of advanced chromatic harmony and twentieth-century musical techniques through analysis and composition.

Prerequisite(s):

MUS 103 Minimum Grade: C- OR T

AND

MUS 104 Minimum Grade: C- OR T

AND

MUS 204 Minimum Grade: C- OR T

MUS 308 - Advanced Aural Skills

1 Credit(s)

Advanced sight singing and ear training, including harmonic and melodic dictation using chromatic intervals.

Prerequisite(s):

MUS 208 Minimum Grade: C- OR T

MUS 320 - Advanced Piano Class

1 Credit(s)

Advanced functional keyboard technique with emphasis on skills needed to fulfill the piano proficiency requirement.

Prerequisite(s):

MUS 220 Minimum Grade: C- OR T

MUS 326 - Music History I

3 Credit(s)

A detailed survey of music history from antiquity to 1750.

Prerequisite(s):

MUS 100 Minimum Grade: C- OR T

AND

MUS 104 Minimum Grade: C- OR T

MUS 327 - Music History II

3 Credit(s)

A detailed survey of music history from 1750 to the present.

Prerequisite(s):

MUS 100 Minimum Grade: C- OR T

AND

MUS 104 Minimum Grade: C- OR T

MUS 333 - Form and Analysis

2 Credit(s)

This course examines the principal musical forms and structural elements of music from the Baroque period through the present. While the majority of the course covers western classical music and composers, forms in pop and rock music will also be covered. Students will be introduced to a variety of approaches and philosophies of musical analysis, accomplished through listening and analysis of musical repertoire. A principal outcome of this course is an increased awareness of the elements of musical form and how they are important in developing insight, understanding, and interpretation of a musical work.

Prerequisite(s):

MUS 304 Minimum Grade: C- or T
AND

MUS 308 Minimum Grade: C- or T

MUS 340 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 241 Minimum Grade: C- OR T

MUS 342 - Applied Music - Composition

2 Credit(s)

This course will provide private instruction in advanced music composition including orchestration techniques. May be repeated for credit (four hours maximum). This course requires instructor approval for registration purposes.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T
AND

MUS 243 Minimum Grade: C- OR T

MUS 343 - Applied Music - Composition

2 Credit(s)

This course will provide further private instruction in advanced music composition including polyphonic and non-tonal techniques. May be repeated for credit (four hours maximum). This course requires instructor approval for registration purposes.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T
AND

MUS 342 Minimum Grade: C- OR T

MUS 360 - Conducting Techniques

2 Credit(s)

Development of fundamental conducting skills, score reading skills, musical concepts, and terminology.

Prerequisite(s):

MUS 204 Minimum Grade: C- OR T
AND

MUS 208 Minimum Grade: C- OR T

MUS 375 - Music Recording Techniques

3 Credit(s)

This course serves as an introduction to audio and MIDI recording techniques, with topics to be covered including digital audio recording, microphones and microphone setup, digital editing and mixing, audio effects such as compression, reverb, and EQ, MIDI recording, and film scoring techniques. There will be extensive use of the program Cubase in this course. The goal of this course is to provide students with the basic techniques and tools to use recording technology in their musical careers.

Prerequisite(s):

MUS 101: Minimum grade C- or T
and

MUS 103: Minimum grade C- or T

and

MUS 104 : Minimum grade C- or T

or

Instructor Permission

MUS 376 - Topics in Music Business

3 Credit(s)

Topics in Music Business will introduce students to the business aspects of the music industry including market and promotion, copyright law, publishing, contracts, licensing, management, concert promotion and production, profit and non-profit arts organizations, grant writing and fundraising.

MUS 378 - Music Recording Seminar

2 Credit(s)

This course is a project-based course with focus on discussion of projects, recording and mixing techniques, and critical listening to recordings. Students will work on semester-long recording projects in the ASU recording studio and participate in class discussion on these projects..

Prerequisite(s):

MUS 103 Minimum Grade: C- OR T
AND

MUS 375 Minimum Grade: C- OR T

MUS 380 - Commercial Music Composition and Production I

1 Credit(s)

The course will provide seminar-like instruction in commercial music composition (pop, rock, R&B, etc...) and production techniques. Students will work individually or in groups in the ASU recording studio on completing at least one finished composition and recording.

Prerequisite(s):

MUS 103 Minimum Grade: C-
AND

MUS 375 Minimum Grade: C-
AND

MUS 378 Minimum Grade: C-

MUS 381 - Commercial Music Composition and Production II

1 Credit(s)

This course will provide seminar-like instruction in commercial music composition (pop, rock, R&B, etc.), music production techniques, and composing for film trailers and video games. Students will work individually or in groups in the ASU recording studio on completing two film and video game projects and one individual composition and recording in a genre of the students choice.

Prerequisite(s):

MUS 103 Minimum Grade: C- OR T
AND

MUS 375 Minimum Grade: C- OR T
AND

MUS 378 Minimum Grade: C- OR T

- MUS XXX - Upper-Division Music Electives **3 Credit(s)**

MUS 444 - Senior Project - Composition

2 Credit(s)

A course for the development and creation of a work for orchestra or wind ensemble. Orchestration techniques will be explored. Analysis of works within the genres will be examined and discussed. A significant written project on some aspect of contemporary music will be required. This course requires instructor approval for registration purposes.

Prerequisite(s):

MUS 343 Minimum Grade: C- OR T

MUS 445 - Senior Recital

2 Credit(s)

Preparation and presentation of a public recital of approximately forty-five minutes of music. Must be taken concurrently with MUS 440 or MUS 441.

Prerequisite(s):

MUS 440 Minimum Grade: C- OR T
AND

MUS 441 Minimum Grade: C- OR T

Completion of both an Upper-Division Jury Exam and a Piano Proficiency Exam

Large Ensemble Requirements

7 semesters:

MUS 245 - Concert Band

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard wind or percussion instrument. May be repeated for credit.

MUS 451 - Concert Band

1 Credit(s)

This course is open to all qualified juniors and seniors, regardless of majors field, who demonstrate sufficient ability on a standard wind or percussion instrument and perform a significant leadership role in the ensemble. May be repeated for credit.

OR

7 Semesters:

MUS 250 - Orchestra

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard orchestral instrument. May be repeated for credit.

MUS 450 - Orchestra

1 Credit(s)

Open by audition to Junior and Senior students who perform a significant leadership role in the orchestra. Repertoire is selected from standard orchestral literature. May be repeated for credit.

OR

7 Semesters of any Choir Combination:

MUS 247 - Concert Choir

1 Credit(s)

Open to all qualified students with repertoire selected from the standard choral concert literature. May be repeated for credit.

MUS 447 - Concert Choir

1 Credit(s)

This course is open to all qualified juniors and seniors, regardless of major, who perform a significant leadership role in the ensemble. Repertoire is selected from standard choral concert literature, as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

AND/OR

MUS 257 - Chamber Choir

1 Credit(s)

An advanced mixed choral ensemble, open to students by audition. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

MUS 457 - Chamber Choir

1 Credit(s)

This course is an advanced mixed choral ensemble, open by audition to junior and senior students who perform a significant leadership role in the ensemble. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

Bachelor of Arts in Music, Emphasis in Liberal Arts

Go to: Music

Entrance Requirements

New music majors and minors are required to complete an entrance audition for admittance to the Department of Music.

Placement Examinations

- Transfer and new students in music must take placement examinations as appropriate in applied music and music theory.

- Students who have not been enrolled in applied music or music theory for two or more years must reaudition for admittance into the Department of Music and take a theory placement exam.

Completion of the Following

MUS 000 - Recital Attendance

0 Credit(s)

A requirement for music majors and minors, which consists of attendance at a designated number of concerts/recitals each semester.

MUS 103 - Introduction to Music Technology

1 Credit(s)

An introduction to music technology, covering a broad range of topics such as music notation, MIDI, music sequencing, mixing, and basic audio editing. The programs to be used include Finale, Garageband, and Audacity, and students compose music utilizing basic concepts of music fundamentals and music theory. The goal of this course is to equip students with music technology skills and knowledge that will be of benefit during their collegiate and professional careers.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 104 - Music Theory I

3 Credit(s)

Development of basic music skills and harmony with practical application through part-writing and composition.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 106 - Careers in the Music Industry

1 Credit(s)

The course provides a broad overview of the music industry, the career opportunities that are available, and effective methods of preparing for success in ones chosen career path.

MUS 108 - Aural Skills I

1 Credit(s)

Foundational work in sight singing and written dictation.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 140 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

MUS 141 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 140 Minimum Grade: D OR T

MUS 204 - Music Theory II

3 Credit(s)

Advanced study in music writing and analysis with emphasis on tonal and chromatic harmony.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

MUS 208 - Aural Skills II

1 Credit(s)

Emphasis on sight singing in parts, more difficult keys and intervals, modulations, and rhythmic patterns in dictation.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

AND

MUS 108 Minimum Grade: C- OR T

Co-requisite(s): MUS 204

MUS 240 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 141 Minimum Grade: C- OR T

MUS 241 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 240 Minimum Grade: C- OR T

MUS 304 - Advanced Theory

3 Credit(s)

The study of advanced chromatic harmony and twentieth-century musical techniques through analysis and composition.

Prerequisite(s):

MUS 103 Minimum Grade: C- OR T

AND

MUS 104 Minimum Grade: C- OR T

AND

MUS 204 Minimum Grade: C- OR T

MUS 308 - Advanced Aural Skills

1 Credit(s)

Advanced sight singing and ear training, including harmonic and melodic dictation using chromatic intervals.

Prerequisite(s):

MUS 208 Minimum Grade: C- OR T

MUS 320 - Advanced Piano Class

1 Credit(s)

Advanced functional keyboard technique with emphasis on skills needed to fulfill the piano proficiency requirement.

Prerequisite(s):

MUS 220 Minimum Grade: C- OR T

MUS 326 - Music History I

3 Credit(s)

A detailed survey of music history from antiquity to 1750.

Prerequisite(s):

MUS 100 Minimum Grade: C- OR T

AND

MUS 104 Minimum Grade: C- OR T

MUS 327 - Music History II

3 Credit(s)

A detailed survey of music history from 1750 to the present.

Prerequisite(s):

MUS 100 Minimum Grade: C- OR T
AND

MUS 104 Minimum Grade: C- OR T

MUS 333 - Form and Analysis

2 Credit(s)

This course examines the principal musical forms and structural elements of music from the Baroque period through the present. While the majority of the course covers western classical music and composers, forms in pop and rock music will also be covered. Students will be introduced to a variety of approaches and philosophies of musical analysis, accomplished through listening and analysis of musical repertoire. A principal outcome of this course is an increased awareness of the elements of musical form and how they are important in developing insight, understanding, and interpretation of a musical work.

Prerequisite(s):

MUS 304 Minimum Grade: C- or T
AND

MUS 308 Minimum Grade: C- or T

MUS 340 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 241 Minimum Grade: C- OR T

MUS 360 - Conducting Techniques

2 Credit(s)

Development of fundamental conducting skills, score reading skills, musical concepts, and terminology.

Prerequisite(s):

MUS 204 Minimum Grade: C- OR T
AND

MUS 208 Minimum Grade: C- OR T

Large Ensemble Requirements

7 semesters:

MUS 245 - Concert Band

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard wind or percussion instrument. May be repeated for credit.

MUS 451 - Concert Band

1 Credit(s)

This course is open to all qualified juniors and seniors, regardless of majors field, who demonstrate sufficient ability on a standard wind or percussion instrument and perform a significant leadership role in the ensemble. May be repeated for credit.

OR

7 Semesters:

MUS 250 - Orchestra

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard orchestral instrument. May be repeated for credit.

MUS 450 - Orchestra

1 Credit(s)

Open by audition to Junior and Senior students who perform a significant leadership role in the orchestra. Repertoire is selected from standard orchestral literature. May be repeated for credit.

OR

7 Semesters of any Choir Combination:

MUS 247 - Concert Choir

1 Credit(s)

Open to all qualified students with repertoire selected from the standard choral concert literature. May be repeated for credit.

MUS 447 - Concert Choir

1 Credit(s)

This course is open to all qualified juniors and seniors, regardless of major, who perform a significant leadership role in the ensemble. Repertoire is selected from standard choral concert literature, as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

AND/OR

MUS 257 - Chamber Choir

1 Credit(s)

An advanced mixed choral ensemble, open to students by audition. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

MUS 457 - Chamber Choir

1 Credit(s)

This course is an advanced mixed choral ensemble, open by audition to junior and senior students who perform a significant leadership role in the ensemble. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

Liberal Arts Emphasis Requirements

Completion of a minor of at least 18 semester hours outside the Music Department or 18 elective hours within the Music Department.

- MUS XXX - Upper-division music electives **3 Credit(s)**

Completion of both an upper-division jury exam and a piano proficiency exam

Bachelor of Arts in Music, Emphasis in Music Industry

Go to: Music

Entrance Requirements

New music majors and minors are required to complete an entrance audition for admittance to the Department of Music.

Placement Examinations

- Transfer and new students in music must take placement examinations as appropriate in applied music and music theory.
- Students who have not been enrolled in applied music or music theory for two or more years must re-audition for admittance into the Department of Music and take a theory placement exam.

Complete the Following

MUS 000 - Recital Attendance

0 Credit(s)

A requirement for music majors and minors, which consists of attendance at a designated number of concerts/recitals each semester.

MUS 103 - Introduction to Music Technology

1 Credit(s)

An introduction to music technology, covering a broad range of topics such as music notation, MIDI, music sequencing, mixing, and basic audio editing. The programs to be used include Finale, Garageband, and Audacity, and students compose music utilizing basic concepts of music fundamentals and music theory. The goal of this course is to equip students with music technology skills and knowledge that will be of benefit during their collegiate and professional careers.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 104 - Music Theory I

3 Credit(s)

Development of basic music skills and harmony with practical application through part-writing and composition.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 106 - Careers in the Music Industry

1 Credit(s)

The course provides a broad overview of the music industry, the career opportunities that are available, and effective methods of preparing for success in ones chosen career path.

MUS 108 - Aural Skills I

1 Credit(s)

Foundational work in sight singing and written dictation.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 204 - Music Theory II

3 Credit(s)

Advanced study in music writing and analysis with emphasis on tonal and chromatic harmony.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

MUS 208 - Aural Skills II

1 Credit(s)

Emphasis on sight singing in parts, more difficult keys and intervals, modulations, and rhythmic patterns in dictation.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

AND

MUS 108 Minimum Grade: C- OR T

Co-requisite(s): MUS 204

MUS 304 - Advanced Theory

3 Credit(s)

The study of advanced chromatic harmony and twentieth-century musical techniques through analysis and composition.

Prerequisite(s):

MUS 103 Minimum Grade: C- OR T

AND

MUS 104 Minimum Grade: C- OR T

AND

MUS 204 Minimum Grade: C- OR T

MUS 308 - Advanced Aural Skills

1 Credit(s)

Advanced sight singing and ear training, including harmonic and melodic dictation using chromatic intervals.

Prerequisite(s):

MUS 208 Minimum Grade: C- OR T

MUS 320 - Advanced Piano Class

1 Credit(s)

Advanced functional keyboard technique with emphasis on skills needed to fulfill the piano proficiency requirement.

Prerequisite(s):

MUS 220 Minimum Grade: C- OR T

MUS 327 - Music History II

3 Credit(s)

A detailed survey of music history from 1750 to the present.

Prerequisite(s):

MUS 100 Minimum Grade: C- OR T

AND

MUS 104 Minimum Grade: C- OR T

MUS 360 - Conducting Techniques

2 Credit(s)

Development of fundamental conducting skills, score reading skills, musical concepts, and terminology.

Prerequisite(s):

MUS 204 Minimum Grade: C- OR T

AND

MUS 208 Minimum Grade: C- OR T

Applied Area Options

a. Single Applied Area

MUS 140 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

MUS 141 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 140 Minimum Grade: D OR T

MUS 240 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 141 Minimum Grade: C- OR T

MUS 241 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 240 Minimum Grade: C- OR T

MUS 340 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 241 Minimum Grade: C- OR T

b. Multiple applied area (two - three applied areas possible)

First Instrument

MUS 140 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

MUS 141 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 140 Minimum Grade: D OR T

MUS 240 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 141 Minimum Grade: C- OR T

Second Instrument

MUS 140 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

MUS 141 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 140 Minimum Grade: D OR T

Large Ensemble Requirements

7 semesters:

MUS 245 - Concert Band

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard wind or percussion instrument. May be repeated for credit.

MUS 451 - Concert Band

1 Credit(s)

This course is open to all qualified juniors and seniors, regardless of majors field, who demonstrate sufficient ability on a standard wind or percussion instrument and perform a significant leadership role in the ensemble. May be repeated for credit.

OR

7 Semesters:

MUS 250 - Orchestra

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard orchestral instrument. May be repeated for credit.

MUS 450 - Orchestra

1 Credit(s)

Open by audition to Junior and Senior students who perform a significant leadership role in the orchestra. Repertoire is selected from standard orchestral literature. May be repeated for credit.

OR

7 Semesters of any Choir Combination:

MUS 247 - Concert Choir

1 Credit(s)

Open to all qualified students with repertoire selected from the standard choral concert literature. May be repeated for credit.

MUS 447 - Concert Choir

1 Credit(s)

This course is open to all qualified juniors and seniors, regardless of major, who perform a significant leadership role in the ensemble. Repertoire is selected from standard choral concert literature, as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

AND/OR

MUS 257 - Chamber Choir

1 Credit(s)

An advanced mixed choral ensemble, open to students by audition. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

MUS 457 - Chamber Choir

1 Credit(s)

This course is an advanced mixed choral ensemble, open by audition to junior and senior students who perform a significant leadership role in the ensemble. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

Music Industry Core Courses

MUS 375 - Music Recording Techniques

3 Credit(s)

This course serves as an introduction to audio and MIDI recording techniques, with topics to be covered including digital audio recording, microphones and microphone setup, digital editing and mixing, audio effects such as compression, reverb, and EQ, MIDI recording, and film scoring techniques. There will be extensive use of the program Cubase in this course. The goal of this course is to provide students with the basic techniques and tools to use recording technology in their musical careers.

Prerequisite(s):

MUS 101: Minimum grade C- or T
and

MUS 103: Minimum grade C- or T

and

MUS 104 : Minimum grade C- or T

or

Instructor Permission

MUS 376 - Topics in Music Business

3 Credit(s)

Topics in Music Business will introduce students to the business aspects of the music industry including market and promotion, copyright law, publishing, contracts, licensing, management, concert promotion and production, profit and non-profit arts organizations, grant writing and fundraising.

MUS 377 - Music Industry Internship

3 Credit(s)

This course is designed to provide practical experience for advanced students in the Music Industry emphasis. Students will further develop competencies in business or recording related areas of the industry while providing practical application of theories, techniques, and concepts discussed in other courses. Students are required to be successfully admitted to upper divisional study, and Senior Standing (90 more hours completed). An approved Internship Application and current resume/references will also be submitted prior to registering in this class.

Prerequisite(s):

MUS 103 C-, MUS 375 C-, MUS 376 C-, MUS 378 C- Permission of Instructor.

MUS 378 - Music Recording Seminar

2 Credit(s)

This course is a project-based course with focus on discussion of projects, recording and mixing techniques, and critical listening to recordings. Students will work on semester-long recording projects in the ASU recording studio and participate in class discussion on these projects..

Prerequisite(s):

MUS 103 Minimum Grade: C- OR T
AND

MUS 375 Minimum Grade: C- OR T

MUS 476 - Music Business Capstone

2 Credit(s)

The course will provide specialized focus and instruction on a project relating to music business and/or recording that aligns with the student's desired career path.

Prerequisite(s):

MUS 103 Minimum Grade: C-

Business Core Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and

controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

Complete 2 of the Following Courses

NOTE: MUS 380 and MUS 381 are 1 credit courses and therefore must both be taken in order to count as one course

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

COMM 275 - News Writing and Criticism

3 Credit(s)

Inverted pyramid print writing and basic broadcast writing are covered in this course. Additionally, students critique, discuss, and analyze current print and broadcasting media conventions, ethics, and procedures.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

COMM 280 - Visual Literacy

3 Credit(s)

This course will decode the messages behind visual communication by covering concepts of photography, television, film, digital imagery, social media, video games, etc. Students will interrogate visual meaning, and even create visual messages using standard industry practices.

Prerequisite(s):

ENG 102 Minimum Grade: C-

COMM 360 - Media Management

3 Credit(s)

Students learn how various media organizations are managed and operated, with a specific focus on radio and television. Various management structures are also explored.

Prerequisite(s):

COMM 293 Minimum Grade: C- OR T

CSCI 104 - Fundamentals of Programming

3 Credit(s)

This course is the first course in the introductory programming sequence for computer science and information technology majors, but is suitable for non-majors interested in getting a taste of computer programming. The course covers program creation, basic control structures, variables, arithmetic expressions, functions, parameters, internal documentation, arrays and strings.

MUS 333 - Form and Analysis

2 Credit(s)

This course examines the principal musical forms and structural elements of music from the Baroque period through the present. While the majority of the course covers western classical music and composers, forms in pop and rock music will also be covered. Students will be introduced to a variety of approaches and philosophies of musical analysis, accomplished through listening and analysis of musical repertoire. A principal outcome of this course is an increased awareness of the elements of musical form and how they are important in developing insight, understanding, and interpretation of a musical work.

Prerequisite(s):

MUS 304 Minimum Grade: C- or T
AND

MUS 308 Minimum Grade: C- or T

MUS 380 - Commercial Music Composition and Production I

1 Credit(s)

The course will provide seminar-like instruction in commercial music composition (pop, rock, R&B, etc...) and production techniques. Students will work individually or in groups in the ASU recording studio on completing at least one finished composition and recording.

Prerequisite(s):

MUS 103 Minimum Grade: C-
AND

MUS 375 Minimum Grade: C-

AND

MUS 378 Minimum Grade: C-

MUS 381 - Commercial Music Composition and Production II

1 Credit(s)

This course will provide seminar-like instruction in commercial music composition (pop, rock, R&B, etc.), music production techniques, and composing for film trailers and video games. Students will work individually or in groups in the ASU recording studio on completing two film and video game projects and one individual composition and recording in a genre of the students choice.

Prerequisite(s):

MUS 103 Minimum Grade: C- OR T
AND

MUS 375 Minimum Grade: C- OR T

AND

MUS 378 Minimum Grade: C- OR T

MUS 326 - Music History I

3 Credit(s)

A detailed survey of music history from antiquity to 1750.

Prerequisite(s):

MUS 100 Minimum Grade: C- OR T

AND

MUS 104 Minimum Grade: C- OR T

THTR 205 - Improvisational Acting

3 Credit(s)

This course is an introduction to improvisation as a form of comedy entertainment. Both short and long form will be covered. Completion of this course is a prerequisite for membership in the Adams State University Improvisation Troupe.

THTR 210 - Stage Makeup

3 Credit(s)

Fundamental elements of design and application of theatre makeup. Painted theatrical makeup, latex, crepe hair, putty wax, prosthetics, and simulated physical trauma will be executed in this course.

THTR 223 - Acting

3 Credit(s)

An introduction to the art of performing using the Stanislavski system of acting. Classes will consist primarily of in-class activities designed to demonstrate acting concepts and principles. This course requires active participation in discussions, exercises, and the presentation of performances.

THTR 285 - Production Management

3 Credit(s)

This course presents information, materials, experiences, and projects that will lead students to an understanding of the functions of technical direction and stage and theatre management. It will teach students to become practicing, problem solving technical directors, stage managers and house managers.

Prerequisite(s):

THTR 251 Minimum Grade: C-

THTR 334 - Lighting Design**3 Credit(s)**

This is an introductory-level, actively intensive, practical workshop, lecture, & discussion based class examining the tools, materials, skills and practices of lighting design, while developing creative thinking and visual communication techniques for the theatre designer. The emphasis of the class is on the creative process, from conceptualization to the execution and presentation of the design idea, with a major focus being the exploration and practical application of the Controllable Qualities of Light, Functions of Stage Light, and Designing with Light, and producing the Lighting plot and related paperwork.

Complete Both an Upper-Division Jury Exam and a Piano Proficiency Exam

Bachelor of Arts in Music, Emphasis in Performance

Go to: Music

Entrance Requirements

New music majors and minors are required to complete an entrance audition for admittance to the Department of Music.

Placement Examinations

- Transfer and new students in music must take placement examinations as appropriate in applied music and music theory.
- Students who have not been enrolled in applied music or music theory for two or more years must reaudition for admittance into the Department of Music and take a theory placement exam.

Completion of the Following**MUS 000 - Recital Attendance****0 Credit(s)**

A requirement for music majors and minors, which consists of attendance at a designated number of concerts/recitals each semester.

MUS 103 - Introduction to Music Technology**1 Credit(s)**

An introduction to music technology, covering a broad range of topics such as music notation, MIDI, music sequencing, mixing, and basic audio editing. The programs to be used include Finale, Garageband, and Audacity, and students compose music utilizing basic concepts of music fundamentals and music theory. The goal of this course is to equip students with music technology skills and knowledge that will be of benefit during their collegiate and professional careers.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 104 - Music Theory I

3 Credit(s)

Development of basic music skills and harmony with practical application through part-writing and composition.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 106 - Careers in the Music Industry

1 Credit(s)

The course provides a broad overview of the music industry, the career opportunities that are available, and effective methods of preparing for success in ones chosen career path.

MUS 108 - Aural Skills I

1 Credit(s)

Foundational work in sight singing and written dictation.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 140 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

MUS 141 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 140 Minimum Grade: D OR T

MUS 204 - Music Theory II

3 Credit(s)

Advanced study in music writing and analysis with emphasis on tonal and chromatic harmony.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

MUS 208 - Aural Skills II

1 Credit(s)

Emphasis on sight singing in parts, more difficult keys and intervals, modulations, and rhythmic patterns in dictation.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T
AND

MUS 108 Minimum Grade: C- OR T

Co-requisite(s): MUS 204

MUS 240 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 141 Minimum Grade: C- OR T

MUS 241 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 240 Minimum Grade: C- OR T

MUS 304 - Advanced Theory

3 Credit(s)

The study of advanced chromatic harmony and twentieth-century musical techniques through analysis and composition.

Prerequisite(s):

MUS 103 Minimum Grade: C- OR T
AND

MUS 104 Minimum Grade: C- OR T

AND

MUS 204 Minimum Grade: C- OR T

MUS 308 - Advanced Aural Skills

1 Credit(s)

Advanced sight singing and ear training, including harmonic and melodic dictation using chromatic intervals.

Prerequisite(s):

MUS 208 Minimum Grade: C- OR T

MUS 320 - Advanced Piano Class

1 Credit(s)

Advanced functional keyboard technique with emphasis on skills needed to fulfill the piano proficiency requirement.

Prerequisite(s):

MUS 220 Minimum Grade: C- OR T

MUS 326 - Music History I

3 Credit(s)

A detailed survey of music history from antiquity to 1750.

Prerequisite(s):

MUS 100 Minimum Grade: C- OR T

AND

MUS 104 Minimum Grade: C- OR T

MUS 327 - Music History II

3 Credit(s)

A detailed survey of music history from 1750 to the present.

Prerequisite(s):

MUS 100 Minimum Grade: C- OR T

AND

MUS 104 Minimum Grade: C- OR T

MUS 333 - Form and Analysis

2 Credit(s)

This course examines the principal musical forms and structural elements of music from the Baroque period through the present. While the majority of the course covers western classical music and composers, forms in pop and rock music will also be covered. Students will be introduced to a variety of approaches and philosophies of musical analysis, accomplished through listening and analysis of musical repertoire. A principal outcome of this course is an increased awareness of the elements of musical form and how they are important in developing insight, understanding, and interpretation of a musical work.

Prerequisite(s):

MUS 304 Minimum Grade: C- or T
AND

MUS 308 Minimum Grade: C- or T

MUS 340 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 241 Minimum Grade: C- OR T

MUS 341 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 340 Minimum Grade: C- OR T

MUS 360 - Conducting Techniques

2 Credit(s)

Development of fundamental conducting skills, score reading skills, musical concepts, and terminology.

Prerequisite(s):

MUS 204 Minimum Grade: C- OR T
AND

MUS 208 Minimum Grade: C- OR T

Large Ensemble Requirements

7 semesters:

MUS 245 - Concert Band

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard wind or percussion instrument. May be repeated for credit.

MUS 451 - Concert Band

1 Credit(s)

This course is open to all qualified juniors and seniors, regardless of majors field, who demonstrate sufficient ability on a standard wind or percussion instrument and perform a significant leadership role in the ensemble. May be repeated for credit.

OR

7 Semesters:

MUS 250 - Orchestra

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard orchestral instrument. May be repeated for credit.

MUS 450 - Orchestra

1 Credit(s)

Open by audition to Junior and Senior students who perform a significant leadership role in the orchestra. Repertoire is selected from standard orchestral literature. May be repeated for credit.

OR

7 Semesters of any Choir Combination:

MUS 247 - Concert Choir

1 Credit(s)

Open to all qualified students with repertoire selected from the standard choral concert literature. May be repeated for credit.

MUS 447 - Concert Choir

1 Credit(s)

This course is open to all qualified juniors and seniors, regardless of major, who perform a significant leadership role in the ensemble. Repertoire is selected from standard choral concert literature, as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

AND/OR

MUS 257 - Chamber Choir

1 Credit(s)

An advanced mixed choral ensemble, open to students by audition. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

MUS 457 - Chamber Choir

1 Credit(s)

This course is an advanced mixed choral ensemble, open by audition to junior and senior students who perform a significant leadership role in the ensemble. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

Performance Requirements

MUS 345 - Junior Recital

1 Credit(s)

Preparation and presentation of a public recital of approximately one-half hour of music.

Prerequisite(s):

MUS 340 Minimum Grade: C- OR T
OR

MUS 341 Minimum Grade: C- OR T

Co-requisite(s): MUS 341

MUS 440 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (four hours maximum).

Prerequisite(s):

MUS 341 Minimum Grade: C- OR T
AND

MUS 345 Minimum Grade: C- OR T

MUS 441 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (four hours maximum).

Prerequisite(s):

MUS 345 Minimum Grade: C- OR T
AND

MUS 440 Minimum Grade: C- OR T

MUS 445 - Senior Recital

2 Credit(s)

Preparation and presentation of a public recital of approximately forty-five minutes of music. Must be taken concurrently with MUS 440 or MUS 441.

Prerequisite(s):

MUS 440 Minimum Grade: C- OR T
AND

MUS 441 Minimum Grade: C- OR T

MUS 376 - Topics in Music Business

3 Credit(s)

Topics in Music Business will introduce students to the business aspects of the music industry including market and promotion, copyright law, publishing, contracts, licensing, management, concert promotion and production, profit and non-profit arts organizations, grant writing and fundraising.

Completion of ONE of the Following Areas of Specialization

Instrumental

MUS 427 - Instrumental Lit and Pedagogy

3 Credit(s)

Historical survey of the student's own instrumental category (either woodwinds, brass, percussion, guitar or strings) and a study of the pedagogical techniques for that instrumental category.

MUS 449 - Chamber Music

1 Credit(s)

Selected groups including instrumental, vocal and mixed ensemble for performance of music in specific periods and mediums, open by audition to junior and senior students who perform a significant leadership role in the ensemble. May be repeated for credit.

- MUS XXX Upper-division music electives **5 Credit(s)**

Piano

MUS 364 - Accompanying Practicum I

2 Credit(s)

Training for the advanced pianist in vocal and instrumental accompanying skills, and related skills for dance accompanying.

Prerequisite(s):

MUS 241 Minimum Grade: C- OR T

MUS 365 - Accompanying Practicum II

2 Credit(s)

Training for the advanced pianist in vocal and instrumental accompanying skills, and related skills for dance accompanying.

Prerequisite(s):

MUS 364 Minimum Grade: C- OR T

MUS 428 - Piano Literature and Pedagogy

3 Credit(s)

Historical survey of the repertoire for piano and a study of pedagogical techniques for the piano.

MUS 449 - Chamber Music

1 Credit(s)

Selected groups including instrumental, vocal and mixed ensemble for performance of music in specific periods and mediums, open by audition to junior and senior students who perform a significant leadership role in the ensemble. May be repeated for credit.

- MUS XXX Upper-division Music Electives **3 Credit(s)**

Voice

MUS 429 - Voice Literature and Pedagogy

3 Credit(s)

A study of pedagogical techniques and vocal problems and the assignments of appropriate literature. A survey of materials include treatises, technique books, physiological books, repertoire, and other areas relevant to singing and to the teaching of singing.

MUS 426 - Song Literature

3 Credit(s)

Historic survey of the art of song.

MUS 252 - Music Theatre Workshop

1 Credit(s)

The study and production of musical theatre and opera repertoire appropriate for educational theatre. May be repeated for credit.

MUS 226 - Lyric Diction I

3 Credit(s)

A study of lyric diction and phonetic transcriptions of languages common to standard vocal repertoire. The course includes English, German, Spanish, and an introduction to the International Phonetic Alphabet.

MUS 227 - Lyric Diction II

3 Credit(s)

A study of lyric diction and phonetic transcriptions of languages common to standard vocal repertoire. The course includes Ecclesiastical Latin, Italian, French, and an introduction to the International Phonetic Alphabet.

- MUS XXX Upper-division music electives **2 Credit(s)**

Completion of both an Upper-Division Jury Exam and a Piano Proficiency Exam

Master of Arts in Music Education

Go to: Music

The Master of Arts in Music Education degree furthers Adams State University's mission by providing educational opportunities for K-12 teachers to earn a master's degree in music education at a reasonable cost. The Music Education master's program furthers students' musical and professional growth, enhances the success of the students they serve, and provides graduate coursework necessary for additional salary credit. The degree offers two tracks, using the cohort model. For the first track, all courses are delivered online. The second track is a combined online/on-campus program. Students in this track enroll in the same online core and supporting courses as the first track. Students in the second track choose an area of concentration in performance, composition, or conducting, in lieu of electives. These courses are delivered face-to-face and require a two semester residency in addition to the summer residency at the beginning of the degree program.

Admission Requirements

Degree Requirements

- Minimum degree requirements are 30 hours.
- Students must maintain a cumulative GPA of at least 3.0 throughout the degree.

All candidates for a master's degree in music education must meet graduation requirements as set forth in the Adams State University Academic Catalog.

Music Education Online Track

Course Requirements (minimum 30 credits)

Required Core

MUED 565 - Introduction to Music Ed Research

3 Credit(s)

This course serves as an introduction to research methodologies used in music and music education. It provides a broad foundation in research design, including quantitative, qualitative, historical, philosophical and non-experimental models. In addition, students familiarize themselves with basic statistical concepts, the library, and standard reference tools and electronic resources for the purpose of research.

MUED 567 - Music Ed History and Philosophy

3 Credit(s)

This course will address the historical and philosophical foundations of music education in the United States, with a focus on aesthetics and the role of the arts in education. Students will formulate a personal philosophy of music education to guide choices in curriculum, teaching, and assessment.

MUED 568 - Sociology and Psychology of Music Education

3 Credit(s)

This course will address the sociological and psychological foundations of music education in the United States focusing on relationships to current trends and best practices.

MUED 596 - Music Education Curriculum Project

3 Credit(s)

This course will address the curriculum and assessment in music education culminating in a curriculum project to be put into practice in the classroom.

Supportive Studies

MUED 503 - Analytical Techniques

3 Credit(s)

This course will examine the principle forms and structural elements of music from the Renaissance through the twentieth century. This course will introduce students to a variety of approaches and philosophies of musical analysis, accomplished through listening and analysis of musical repertoire.

MUED 504 - Orchestration and Arranging

3 Credit(s)

This course will provide instruction in music orchestration and arranging techniques pertinent to music educators.

Students will apply these techniques to arrangements for voice and contemporary band/orchestral instruments and ensembles.

MUED 534 - Music Literature and Pedagogy

3 Credit(s)

A study of choral and instrumental literature, pedagogical techniques, and rehearsal techniques appropriate for school ensembles. The course explores resource materials, pedagogical practice, and effective teaching strategies.

Additional Supportive Studies

MUED 521 - World Music and Culture

3 Credit(s)

This course will provide the conceptual foundations necessary to explore and integrate music from around the world into the K-12 music curriculum. Through case study, critical writing, audio and video example, and individual research, students will investigate, experience, and synthesize the importance of music as it relates to different cultures, customs, religions, and history. Students will learn how music is correlated to everyday activities in a variety of societies.

MUED 523 - Topics in Jazz and Rock

3 Credit(s)

This course will examine the development and principle styles in jazz and rock music in the 20th and 21st centuries. The course will look at the important developments in both styles through musical, historical, and cultural lenses. The goal of this course is to go beyond a broad overview of these styles, with students doing in-depth listening to seminal albums in both jazz and rock.

MUED 533 - American Music History

3 Credit(s)

This course is designed as a survey of the development of music in the current United States, from the Spanish colonization in the 16th century to present times. Topics addressed will include the various musical styles and genres, composers of the period and their compositions. Emphasis will be placed on developing a thorough knowledge of music literature of the time, being able to place this music in its proper historical and cultural context, as well as being able to incorporate it into the K-12 curriculum.

Music Education Online/On-campus Track with Concentrations In

- Composition
- Conducting
- Performing

Course Requirements (Minimum 30 Credits)

Required Core

MUED 565 - Introduction to Music Ed Research

3 Credit(s)

This course serves as an introduction to research methodologies used in music and music education. It provides a broad foundation in research design, including quantitative, qualitative, historical, philosophical and non-experimental models. In addition, students familiarize themselves with basic statistical concepts, the library, and standard reference tools and electronic resources for the purpose of research.

MUED 567 - Music Ed History and Philosophy

3 Credit(s)

This course will address the historical and philosophical foundations of music education in the United States, with a focus on aesthetics and the role of the arts in education. Students will formulate a personal philosophy of music education to guide choices in curriculum, teaching, and assessment.

MUED 568 - Sociology and Psychology of Music Education

3 Credit(s)

This course will address the sociological and psychological foundations of music education in the United States focusing on relationships to current trends and best practices.

MUED 596 - Music Education Curriculum Project

3 Credit(s)

This course will address the curriculum and assessment in music education culminating in a curriculum project to be put into practice in the classroom.

Supportive Studies

MUED 503 - Analytical Techniques

3 Credit(s)

This course will examine the principle forms and structural elements of music from the Renaissance through the twentieth century. This course will introduce students to a variety of approaches and philosophies of musical analysis, accomplished through listening and analysis of musical repertoire.

MUED 504 - Orchestration and Arranging

3 Credit(s)

This course will provide instruction in music orchestration and arranging techniques pertinent to music educators. Students will apply these techniques to arrangements for voice and contemporary band/orchestral instruments and ensembles.

MUED 534 - Music Literature and Pedagogy

3 Credit(s)

A study of choral and instrumental literature, pedagogical techniques, and rehearsal techniques appropriate for school ensembles. The course explores resource materials, pedagogical practice, and effective teaching strategies.

Area of Concentration

MUED 540 - Applied Lessons

2 Credit(s)

This course is required for the combined online/on-campus track of the Master of Arts in Music Education.

MUED 541 - Applied Lessons

2 Credit(s)

This course is required for the combined online/on-campus track of the Master of Arts in Music Education.

MUED 595 - Graduate Recital

1 Credit(s)

Preparation and presentation of a public recital of approximately 60 minutes of prepared music.

Co-requisite(s): MUED 541

Small Ensemble

(2 credits total-courses may be repeated)

MUED 546 - Jazz Ensemble

1 Credit(s)

An advanced instrumental jazz ensemble, open by audition. Repertoire is selected from a variety of jazz styles and periods.

OR

MUED 548 - Jazz Singers

1 Credit(s)

An advanced vocal jazz ensemble, open by audition to students who will be expected to perform a significant leadership role in the ensemble. Repertoire is selected from a variety of jazz and popular styles and periods.

OR

MUED 549 - Chamber Ensemble

1 Credit(s)

Selected groups including instrumental, vocal, and mixed ensembles for performance of music in specific periods and mediums.

OR

Large Ensemble

(2 credits total-courses may be repeated)

MUED 545 - Band

1 Credit(s)

Open to all students regardless of major field who demonstrate sufficient ability on a standard wind or percussion instrument.

OR

MUED 547 - Concert Choir

1 Credit(s)

Open to all qualified students with repertoire selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions.

OR

MUED 550 - Orchestra

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard orchestral instrument.

Note:

An on-campus residency during the first two semesters of the program is required for completion of courses in the concentration area. Please contact Dr. Matthew Schildt (mschildt@adams.edu) with any questions.

Minor in Music

Go to: Music

Entrance Requirements

New music majors and minors are required to complete an entrance audition for admittance to the Department of Music.

Placement Examinations

- Transfer and new students in music must take placement examinations as appropriate in applied music and music theory.
- Students who have not been enrolled in applied music or music theory for two or more years must reaudition for admittance into the Department of Music and take a theory placement exam.

Course Completion Requirements

MUS 000 - Recital Attendance

0 Credit(s)

A requirement for music majors and minors, which consists of attendance at a designated number of concerts/recitals each semester.

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

MUS 103 - Introduction to Music Technology

1 Credit(s)

An introduction to music technology, covering a broad range of topics such as music notation, MIDI, music sequencing, mixing, and basic audio editing. The programs to be used include Finale, Garageband, and Audacity, and students compose music utilizing basic concepts of music fundamentals and music theory. The goal of this course is to equip students with music technology skills and knowledge that will be of benefit during their collegiate and professional careers.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 104 - Music Theory I

3 Credit(s)

Development of basic music skills and harmony with practical application through part-writing and composition.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 108 - Aural Skills I

1 Credit(s)

Foundational work in sight singing and written dictation.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 204 - Music Theory II

3 Credit(s)

Advanced study in music writing and analysis with emphasis on tonal and chromatic harmony.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

MUS 208 - Aural Skills II

1 Credit(s)

Emphasis on sight singing in parts, more difficult keys and intervals, modulations, and rhythmic patterns in dictation.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

AND

MUS 108 Minimum Grade: C- OR T

Co-requisite(s): MUS 204

MUS 140 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

MUS 141 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 140 Minimum Grade: D OR T

2 Semesters (2 Credits Total)

MUS 245 - Concert Band

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard wind or percussion instrument. May be repeated for credit.

MUS 247 - Concert Choir

1 Credit(s)

Open to all qualified students with repertoire selected from the standard choral concert literature. May be repeated for credit.

OR

MUS 257 - Chamber Choir

1 Credit(s)

An advanced mixed choral ensemble, open to students by audition. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

MUS 250 - Orchestra

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard orchestral instrument. May be repeated for credit.

Theatre

Return to: School of Visual & Performing Arts (SVPA)

The Theatre Program at Adams State University is known across the country as an outstanding program that prepares actors, directors, designers, and technicians for graduate schools, teaching, and for the profession itself. The program is housed in one of the premier facilities in the region: a state-of-the-art building, which opened in 2001. This intensive program offers classroom instruction allowing students to engage in all areas of study. A rigorous production schedule, which includes many student-directed productions, allows students to achieve complete performance training throughout their college careers. The program has won numerous awards at the Rocky Mountain Theatre Festival. One of the greatest points of the program is its small class size and personal attention that each student receives.

Faculty

Chair

- Dr. John Taylor

Theatre Coordinator

- Professor Jenna Nielsen

Professors

- Jenna Nielsen, M.F.A.
- John Taylor, Ph.D.

Assistant Professors

- George McConnell, Ph.D.

Course List

All Theatre Courses

Associate of Arts, Theatre Emphasis

Go to: Theatre

As Part of the Graduation Requirements for Undergraduates, Complete:

General Education Requirements (31 Credits Total)

Area I. Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T
OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II. Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T
AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III. Mathematics (3 credits)

MATH 104 - Finite Mathematics GT-MA1

3 Credit(s)

Topics covered include functions and their graphs, matrices, linear programming, probability, and descriptive statistics. Applications are presented from the areas of biology, business, behavioral sciences, economics, and the social sciences.

Prerequisite(s):

MATH 97 Minimum Grade: S-C or T
OR

MATH 99 Minimum Grade: S-C or T

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

ACT Math - Minimum Score: 19

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T
OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of

Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T

OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Area IV. Social and Behavioral Sciences/History (9 credits)

- at least one course must be a GT-SS*
- At least one course must be a GT-HI1 course
- the remaining course may come from either category
- Only one ECON course may be used towards the requirements in this General Education area

GT-SS* Courses

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

GT-HI1 Courses

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas

exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V. Physical and Natural Sciences (7 Credits)

One credit must be a lab:

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the

foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

CHEM 103 - Introduction to Forensic Chemistry GT-SC1

4 Credit(s)

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

CHEM 103L - Introduction to Forensic Chemistry Lab GT-SC1

0 Credit(s)

Required companion laboratory to CHEM 103.

Co-requisite(s): CHEM 103

CHEM 104 - Chemistry in Context GT-SC2

3 Credit(s)

This course is designed to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and in significant issues facing science, technology, and society.

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T
OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2

3 Credit(s)

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-

OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

Completion of the following Theatre Courses

THTR 210 - Stage Makeup

3 Credit(s)

Fundamental elements of design and application of theatre makeup. Painted theatrical makeup, latex, crepe hair, putty wax, prosthetics, and simulated physical trauma will be executed in this course.

THTR 213 - Oral Interpretation of Literature

3 Credit(s)

Helps develop effectiveness in personal expression and abilities in the oral interpretation of fiction, nonfiction, and poetry.

THTR 223 - Acting

3 Credit(s)

An introduction to the art of performing using the Stanislavski system of acting. Classes will consist primarily of in-class activities designed to demonstrate acting concepts and principles. This course requires active participation in discussions, exercises, and the presentation of performances.

THTR 242 - Voice for Performance

3 Credit(s)

Study of the physical nature of voice production and the sound and mechanisms of speech, including articulation, register, and range. Individual analysis and performance.

THTR 288 - Physical Acting

3 Credit(s)

This course focuses on the physical aspects of acting. While previous acting courses introduced techniques dealing with creating a character, script analysis, and scene work, this course explores alternative movement-based approaches to acting. Instructor permission must be obtained to register for this course.

Prerequisite(s):

THTR 223 Minimum Grade: C- OR T

Completion of Portfolio Requirements as specified by the Theatre Department

Total completion of a minimum of 60 credits for this degree

Bachelor of Arts in Theatre

Go to: Theatre

Specific courses required for this degree:

Completion of the Following Required Courses

THTR 223 - Acting

3 Credit(s)

An introduction to the art of performing using the Stanislavski system of acting. Classes will consist primarily of in-class activities designed to demonstrate acting concepts and principles. This course requires active participation in discussions, exercises, and the presentation of performances.

THTR 230 - Introduction to Devising

3 Credit(s)

This course offers a practical engagement with theatrical devising processes. Devising is a method of making performance work that is an alternative to script-based performance practices. In addition to using readings and class discussion to provide a grounding in understanding devising processes, the course will also be structured as a lab for a hands-on practical experience in devising new work.

Prerequisite(s):

THTR 223 Minimum Grade: C- OR T

THTR 251 - Stagecraft I

3 Credit(s)

An introductory course that explores the basic skills, principles, and techniques of Technical Theatre production: Production Organization & Management, Scenery and Props, Lighting & Electrics, Sound, and Costuming & Makeup. An emphasis on both theory and gaining practical, hands-on experience with Theatre tools, equipment, and common practices.

THTR 265 - Playscript Analysis

3 Credit(s)

This course offers a foundation in script analysis. Utilizing close reading techniques, students will practice reading scripts to garner the critical skills necessary to produce theatrical work. In addition to this focus on production analysis, students will also learn about the historical, cultural and political contexts for each play read to understand the consequences of producing theatrical work in relation to the broader social milieu.

THTR 285 - Production Management

3 Credit(s)

This course presents information, materials, experiences, and projects that will lead students to an understanding of the functions of technical direction and stage and theatre management. It will teach students to become practicing, problem solving technical directors, stage managers and house managers.

Prerequisite(s):

THTR 251 Minimum Grade: C-

THTR 385 - Play Direction

3 Credit(s)

A comprehensive study of the numerous, functions of the stage director, from pre-season play selection to post-production evaluation. The focus will be placed upon script analysis, development of design concepts, principles of blocking and movement, pacing, and communicating with actors and the design team.

Prerequisite(s):

THTR 223 Minimum Grade: C- OR T

THTR 430 - Business of Theatre

3 Credit(s)

This course is an exploration of the business of theatre, with the purpose of preparing students for entrance into the professional and/or academic world of theatre post-graduation.

THTR 480 - Dramatic Theory and Criticism

3 Credit(s)

An advanced examination of selected critical writings of major theorists and critical theories in theatre, beginning with the study of Aristotle and including the application of contemporary theories to a variety of playscripts.

THTR 490 - Senior Thesis

3 Credit(s)

An advanced examination of a single area of theatre. This is the graduating senior's capstone project. The precise nature of the project will be designed in consultation with the student's advisor. Theses may include a significant research and writing project or a creative performing arts project, such as the direction or design or stage management of a play. Instructor permission is required for registration into this course.

**Completion of 6 Hours from 2 sections and 9 hours from one section
(section A, B, & C)**

Unless a History/Lit emphasis is being pursued, then students should complete 6 hours in sections A, B, & C).

Section A: Design and Technology Emphasis

THTR 210 - Stage Makeup

3 Credit(s)

Fundamental elements of design and application of theatre makeup. Painted theatrical makeup, latex, crepe hair, putty wax, prosthetics, and simulated physical trauma will be executed in this course.

THTR 333 - Scenic Design

3 Credit(s)

This is an introductory-level, actively intensive, practical workshop, lecture, & discussion based class examining the tools, materials, skills and practices of scenic design, while developing creative thinking and visual communication techniques for the theatre designer. The emphasis of the class is on the creative process, from conceptualization to the execution and presentation of the design idea, with a major focus being the exploration and use of unexpected associations, analogies, and visual metaphors as tools for inspiring and creating effective scenic designs.

Prerequisite(s):

THTR 351 Minimum Grade: C- OR T

THTR 334 - Lighting Design

3 Credit(s)

This is an introductory-level, actively intensive, practical workshop, lecture, & discussion based class examining the tools, materials, skills and practices of lighting design, while developing creative thinking and visual communication techniques for the theatre designer. The emphasis of the class is on the creative process, from conceptualization to the execution and presentation of the design idea, with a major focus being the exploration and practical application of the Controllable Qualities of Light, Functions of Stage Light, and Designing with Light, and producing the Lighting plot and related paperwork.

THTR 335 - Theatre Practicum

1 to 3 Credit(s)

Theatre Practicum is an applied course in which a student, in consultation with, and under the supervision of, a faculty member, undertakes a project related to the Design & Technology emphasis. The number of credits for Practicum is determined by the scope of the students project.

THTR 340 - Costume Design

3 Credit(s)

Fundamental elements of design and study of critical historical periods of costume from Greek through present day.

THTR 351 - Stagecraft II

3 Credit(s)

A hands-on approach to the fundamentals of technical theatre. Students will have the opportunity to learn mechanical drawing, stage carpentry, welding, set construction, stage lighting, scenery painting and the use of a variety of fasteners, hand tools, and power tools.

THTR 279 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

OR

THTR 379 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

Section B: Collaborative Creation Emphasis

THTR 205 - Improvisational Acting

3 Credit(s)

This course is an introduction to improvisation as a form of comedy entertainment. Both short and long form will be covered. Completion of this course is a prerequisite for membership in the Adams State University Improvisation Troupe.

THTR 336 - Theatre Practicum

1 to 3 Credit(s)

Theatre Practicum is an applied course in which a student, in consultation with, and under the supervision of, a faculty member, undertakes a project related to the Collaborative Creation emphasis. The number of credits for Practicum is determined by the scope of the students project.

THTR 345 - Improv Troupe Practicum

1 to 3 Credit(s)

Participation in college Improvisation Troupe under the supervision of the Theatre faculty. May be repeated for credit. No more than three credits will count towards major requirements. Instructor permission is required for registration into this course.

Prerequisite(s):

THTR 205 Minimum Grade: C-

THTR 347 - Theatre and Social Change

3 Credit(s)

This course is an introduction to the ideas and practice of theatre as a catalyst for social change. It examines the intersection between theatre, society, and political activism.

THTR 352 - Playwriting

3 Credit(s)

This course introduces the basics of playwriting, its form and structure. Utilizing multiple approaches to writing and capitalizing on the student's own creative thinking, the course will culminate in a staged reading of the students' work.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

THTR 368 - Performance Art

3 Credit(s)

A study of Performance Art with an emphasis on its history, theory, and creation of original performance.

THTR 279 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

THTR 379 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

Section C: Performance Emphasis

THTR 242 - Voice for Performance

3 Credit(s)

Study of the physical nature of voice production and the sound and mechanisms of speech, including articulation, register, and range. Individual analysis and performance.

THTR 288 - Physical Acting

3 Credit(s)

This course focuses on the physical aspects of acting. While previous acting courses introduced techniques dealing with creating a character, script analysis, and scene work, this course explores alternative movement-based approaches to acting. Instructor permission must be obtained to register for this course.

Prerequisite(s):

THTR 223 Minimum Grade: C- OR T

THTR 310 - Advanced Acting Techniques

3 Credit(s)

Advanced study of the techniques of acting. Emphasis will be placed on character and script analysis using the Stanislavski system of acting. Additionally, other significant theories of acting will be introduced. Instructor permission may be obtained to register for this course.

Prerequisite(s):

THTR 223 Minimum Grade: C- OR T

THTR 325 - Styles of Acting

3 Credit(s)

Character analysis and development involved in performing tragedy, serious drama, farce, and high comedy. Instructor permission must be obtained to register for this course.

Prerequisite(s):

THTR 223 Minimum Grade: C- OR T

THTR 337 - Theatre Practicum

1 to 3 Credit(s)

Theatre Practicum is an applied course in which a student, in consultation with, and under the supervision of, a faculty member, undertakes a project related to the Performance emphasis. The number of credits for Practicum is determined by the scope of the students project.

THTR 279 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

THTR 379 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

Note

Completion of 9 hours in section D (unless a History/Lit emphasis is being pursued then the student should complete 12 hours)

Section D: History & Literature

ENG 329 - Women and Drama

3 Credit(s)

A survey of the history and literature associated with women in theatre. The course will include the history of actual women involved in the evolution of western and eastern theatre traditions as well as playscripts which deal with the

subject of women's issues. There will be a strong emphasis on the incorporation of contemporary dramatic theory, especially feminist theory, to analyze dramatic texts. The course will cover Greek through Contemporary Drama.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

OR

THTR 329 - Women and Drama

3 Credit(s)

A survey of the history and literature associated with women in theatre. The course will include the history of actual women involved in the evolution of western and eastern theatre traditions as well as playscripts which deal with the subject of women's issues. There will be a strong emphasis on the incorporation of contemporary dramatic theory, especially feminist theory, to analyze dramatic texts. The course will cover Greek through Contemporary Drama.

ENG 465 - Modern Theatre

3 Credit(s)

Study of theatre history and the diverse trends in dramatic literature during the 19th century and early to mid-20th century, as viewed through the works of the major playwrights of Europe and the United States. The focus of the course will be placed equally upon history, script analysis, and dramaturgy.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

THTR 465 - Modern Theatre

3 Credit(s)

Study of theatre history and the diverse trends in dramatic literature during the 19th century and early to mid-20th century, as viewed through the works of the major playwrights of Europe and the United States. The focus of the course will be placed equally upon history, script analysis, and dramaturgy.

ENG 470 - Classical Theatre

3 Credit(s)

A chronological study of the major periods of theatre history and dramatic literature, from the emergence of Greek Tragedy in the 5th century B.C. to English Restoration Comedy. The focus of the course will be placed equally upon history, script analysis and dramaturgy.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

OR

THTR 470 - Classical Theatre

3 Credit(s)

A chronological study of the major periods of theatre history and dramatic literature, from the emergence of Greek tragedy in the 5th century B.C. to English Restoration Comedy. The focus of the course will be placed equally upon history, script analysis and dramaturgy.

ENG 472 - Contemporary Theatre

3 Credit(s)

An inclusive study of theatre history and dramatic literature from 1965 through the present day with a specific emphasis on multicultural theatre. The focus of the course will be placed equally upon history, script analysis, and dramaturgy.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

THTR 472 - Contemporary Theatre

3 Credit(s)

An inclusive study of theatre history and dramatic literature from 1965 through the present day with a specific emphasis on multicultural theatre. The focus of the course will be placed equally upon history, script analysis, and dramaturgy.

THTR 320 - Censorship and the Arts

3 Credit(s)

This course focuses on the phenomenon of censorship in the United States with a specific emphasis on the First Amendment and case studies of censored artistic expression.

THTR 338 - Theatre Practicum

1 to 3 Credit(s)

Theatre Practicum is an applied course in which a student, in consultation with, and under the supervision of, a faculty member, undertakes a project related to the History & Literature emphasis. The number of credits for Practicum is determined by the scope of the students project.

THTR 279 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

OR

THTR 379 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

Bachelor of Arts in Theatre, Secondary English Licensure

Go to: Bachelor of Arts, Secondary Education Licensure

Go to: Theatre

1. Completion of the following

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

ENG 226 - Introduction to Linguistics

3 Credit(s)

This course is an in-depth introduction to linguistics. It will include discussion of the syntax, phonology, morphology, semantics, and pragmatics of English. Additionally it may include a basic introduction to issues such as historical linguistics, first and second language acquisition, psycholinguistics, sociolinguistics, and other issues relevant to the field.

Prerequisite(s):

ENG-101 Minimum Grade: C- OR T

ENG 227 - Introduction to Creative Writing

3 Credit(s)

Students write and read poetry, fiction, creative nonfiction, and drama, develop aesthetic standards, and evaluate their writing and that of their classmates. Course emphasizes the writing process, including strategies for invention and revision, and presents ideas for teaching creative writing.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

OR

ENG 363 - Professionalization and Publishing

3 Credit(s)

Students will practice writing at an intensive level beyond the research or argument papers they wrote in English 102, and beyond the literary critiques they have written for literature courses. Instruction will focus on real-world skills and practical applications for writing. The course will also discuss writing-related career paths and professionalization techniques. Except for the senior capstone course, the writing here includes the ultimate writing tasks of the students' undergraduate career. It is expected that several items from this course will contribute to the students' senior portfolio.

Prerequisite(s):

Junior or Senior Standing

OR

ENG 416 - The Teaching of Writing

3 Credit(s)

A study of theories about writing through reading, research, reflection, writing and practice. Students will practice the teaching of writing and develop instructional strategies and philosophies for all levels including college.

ENG 309 - British Literature I: Monsters and Magic

3 Credit(s)

This course is the first of a two-course historical survey of British Literature from the sixth to the twenty-first centuries. English 309 starts with the pre-Norman writers and ends in the mid eighteenth century. Eng. 310 begins with the eighteenth century and ends with contemporary authors. This combination of courses will lay the foundation for more advanced, focused study of specific authors and periods in the British literary tradition. Neither 309 or 310 will assume the other as a prerequisite.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

OR

ENG 310 - British Literature II: Bodies and Empire

3 Credit(s)

This course is the second of a two-course historical survey of British Literature from the sixth to the twenty-first centuries. English 309 starts with the pre-Norman writers and ends in the mid eighteenth century. Eng. 310 begins with the eighteenth century and ends with contemporary authors. This combination of courses will lay the foundation for more advanced, focused study of specific authors and periods in the British literary tradition. Neither 309 or 310 will assume the other as a prerequisite.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 316 - Methods/English in Secondary School

3 Credit(s)

A study of effective teaching methods used in presenting grammar, composition, and literature to junior and senior school students. Usually taken as part of the Education licensure senior block. Students should have a strong preparation in upper-division English content courses. Admission to the Teacher Education Program is required. This course must be taken along with other courses designated in the senior block. Students wishing to take the course who do not meet the above requirements must obtain instructor permission.

Prerequisite(s):

ED 200 Minimum Grade: C OR T
AND

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

AND

ENG 226 Minimum Grade: C- OR T

AND

Admission to the Educator Preparation Program

AND

Teacher Education Background Check Passed

AND

ED 220 Minimum Grade: T

ENG 329 - Women and Drama

3 Credit(s)

A survey of the history and literature associated with women in theatre. The course will include the history of actual women involved in the evolution of western and eastern theatre traditions as well as playscripts which deal with the subject of women's issues. There will be a strong emphasis on the incorporation of contemporary dramatic theory, especially feminist theory, to analyze dramatic texts. The course will cover Greek through Contemporary Drama.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

OR

ENG 365 - Ethnic and Minority Literature

3 Credit(s)

A study of the literature of Native American, African-American, Chicano, and other American ethnic and minority groups.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

OR

ENG 375 - Chicano Literature

3 Credit(s)

This course explores the canon of Chicana/o Literature and its multiple influences. Specifically, the course deals with the cultural, political and societal climates that necessitated the literature. The course will focus on oral tradition and its evolution into other genres of Chicana/o Literature (poetry, fiction, & essay). Chicana/o Literature (poetry, fiction, & essay).

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

OR

ENG 385 - Women and Literature

3 Credit(s)

A survey of literature written by women beginning with Sappho and focusing on the western tradition. An introduction to feminist literary criticism.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

OR

ENG 472 - Contemporary Theatre

3 Credit(s)

An inclusive study of theatre history and dramatic literature from 1965 through the present day with a specific emphasis on multicultural theatre. The focus of the course will be placed equally upon history, script analysis, and dramaturgy.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

THTR 472 - Contemporary Theatre

3 Credit(s)

An inclusive study of theatre history and dramatic literature from 1965 through the present day with a specific emphasis on multicultural theatre. The focus of the course will be placed equally upon history, script analysis, and dramaturgy.

ENG 394 - American Literature I: Discovery and Colonization

3 Credit(s)

Several of the figures studied in this class-such as Christopher Columbus, Anne Bradstreet, Hector St. Jean de Crevecoeur, and Thomas Jefferson-are frequently referenced in contemporary discussions of the American "character," yet are poorly understood by most. A basic knowledge of the literatures of colonial America and the early United States deepens students' understanding of these figures, and hence of American history, culture, politics, and identity. This course complements American Literature II and is required of all English liberal arts and secondary education majors.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

OR

ENG 395 - American Literature II: Marginalized Voices

3 Credit(s)

Survey of American literature from 1865 to the present. Thematic emphases include the development of African American, Native American, and feminist literary traditions; industrialization, urbanization, and the closing of the frontier; realism, naturalism, and modernism; the Lost Generation; and the Sixties and postmodernism.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 403 - Shakespeare

3 Credit(s)

Combines study of comedies, histories, and tragedies.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

SPCH 100 - Speech Fundamentals

3 Credit(s)

A course designed to develop proficiency in oral communication: interpersonal, group, and public discourse.

THTR 223 - Acting

3 Credit(s)

An introduction to the art of performing using the Stanislavski system of acting. Classes will consist primarily of in-class activities designed to demonstrate acting concepts and principles. This course requires active participation in discussions, exercises, and the presentation of performances.

THTR 251 - Stagecraft I

3 Credit(s)

An introductory course that explores the basic skills, principles, and techniques of Technical Theatre production: Production Organization & Management, Scenery and Props, Lighting & Electrics, Sound, and Costuming & Makeup. An emphasis on both theory and gaining practical, hands-on experience with Theatre tools, equipment, and common practices.

THTR 285 - Production Management

3 Credit(s)

This course presents information, materials, experiences, and projects that will lead students to an understanding of the functions of technical direction and stage and theatre management. It will teach students to become practicing, problem solving technical directors, stage managers and house managers.

Prerequisite(s):

THTR 251 Minimum Grade: C-

THTR 310 - Advanced Acting Techniques

3 Credit(s)

Advanced study of the techniques of acting. Emphasis will be placed on character and script analysis using the Stanislavski system of acting. Additionally, other significant theories of acting will be introduced. Instructor permission may be obtained to register for this course.

Prerequisite(s):

THTR 223 Minimum Grade: C- OR T

THTR 333 - Scenic Design

3 Credit(s)

This is an introductory-level, actively intensive, practical workshop, lecture, & discussion based class examining the tools, materials, skills and practices of scenic design, while developing creative thinking and visual communication techniques for the theatre designer. The emphasis of the class is on the creative process, from conceptualization to the execution and presentation of the design idea, with a major focus being the exploration and use of unexpected associations, analogies, and visual metaphors as tools for inspiring and creating effective scenic designs.

Prerequisite(s):

THTR 351 Minimum Grade: C- OR T

OR

THTR 334 - Lighting Design

3 Credit(s)

This is an introductory-level, actively intensive, practical workshop, lecture, & discussion based class examining the tools, materials, skills and practices of lighting design, while developing creative thinking and visual communication techniques for the theatre designer. The emphasis of the class is on the creative process, from conceptualization to the execution and presentation of the design idea, with a major focus being the exploration and practical application of the Controllable Qualities of Light, Functions of Stage Light, and Designing with Light, and producing the Lighting plot and related paperwork.

OR

THTR 340 - Costume Design

3 Credit(s)

Fundamental elements of design and study of critical historical periods of costume from Greek through present day.

THTR 385 - Play Direction

3 Credit(s)

A comprehensive study of the numerous, functions of the stage director, from pre-season play selection to post-production evaluation. The focus will be placed upon script analysis, development of design concepts, principles of blocking and movement, pacing, and communicating with actors and the design team.

Prerequisite(s):

THTR 223 Minimum Grade: C- OR T

THTR 480 - Dramatic Theory and Criticism

3 Credit(s)

An advanced examination of selected critical writings of major theorists and critical theories in theatre, beginning with the study of Aristotle and including the application of contemporary theories to a variety of playscripts.

THTR 490 - Senior Thesis

3 Credit(s)

An advanced examination of a single area of theatre. This is the graduating senior's capstone project. The precise nature of the project will be designed in consultation with the student's advisor. Theses may include a significant research and writing project or a creative performing arts project, such as the direction or design or stage management of a play. Instructor permission is required for registration into this course.

Plus Additional Secondary Education Licensure Requirements from the School of Education

Bachelor of Arts, Secondary Education Licensure

Minor in Theatre

Go to: Theatre

The minor in theatre arts is offered for those who wish to be more effective in communicating the knowledge of their major. The minor is highly relevant and practical in combination with other majors such as business, government, sociology, English, guidance and counseling, music, journalism, education, speech correction, health, physical education and recreation, and all pre-professional studies. Courses are to be selected in consultation with the program chair.

Academic Affairs

Associate of Arts

As part of the Graduation Requirements for Undergraduates, Complete:

General Education Requirements (31 Credits Total)

Area I. Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass

the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T

OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II. Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and

construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III. Mathematics (3 credits)

MATH 104 - Finite Mathematics GT-MA1

3 Credit(s)

Topics covered include functions and their graphs, matrices, linear programming, probability, and descriptive statistics. Applications are presented from the areas of biology, business, behavioral sciences, economics, and the social sciences.

Prerequisite(s):

MATH 97 Minimum Grade: S-C or T
OR

MATH 99 Minimum Grade: S-C or T

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

ACT Math - Minimum Score: 19

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T
OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T
OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T
OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Area IV. Social and Behavioral Sciences/History (9 credits)

- at least one course must be a GT-SS*
- At least one course must be a GT-HII course
- the remaining course may come from either category
- Only one ECON course may be used towards the requirements in this General Education area

GT-SS* Courses

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

GT-HI1 Courses

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V. Physical and Natural Sciences (7 Credits)

One credit must be a lab:

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course

includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430
AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

CHEM 103 - Introduction to Forensic Chemistry GT-SC1

4 Credit(s)

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

CHEM 103L - Introduction to Forensic Chemistry Lab GT-SC1

0 Credit(s)

Required companion laboratory to CHEM 103.

Co-requisite(s): CHEM 103

CHEM 104 - Chemistry in Context GT-SC2

3 Credit(s)

This course is designed to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and in significant issues facing science, technology, and society.

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2

3 Credit(s)

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

29 Elective Credits

Associate of Science

As Part of the Graduation Requirements for Undergraduates, Complete:

General Education Requirements (31 Credits Total)

Area I. Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18
OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T

OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II. Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2**3 to 6 Credit(s)**

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1**3 Credit(s)**

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3**3 Credit(s)**

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking**3 Credit(s)**

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1**3 Credit(s)**

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage,

performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III. Mathematics (3 credits)

MATH 104 - Finite Mathematics GT-MA1

3 Credit(s)

Topics covered include functions and their graphs, matrices, linear programming, probability, and descriptive statistics. Applications are presented from the areas of biology, business, behavioral sciences, economics, and the social sciences.

Prerequisite(s):

MATH 97 Minimum Grade: S-C or T
OR

MATH 99 Minimum Grade: S-C or T

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

ACT Math - Minimum Score: 19

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T
OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law of Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T
OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T
OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Area IV. Social and Behavioral Sciences/History (9 credits)

- at least one course must be a GT-SS*
- At least one course must be a GT-HII course
- the remaining course may come from either category
- Only one ECON course may be used towards the requirements in this General Education area

GT-SS* Courses

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

GT-HI1 Courses

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V. Physical and Natural Sciences (7 Credits)

One credit must be a lab:

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

CHEM 103 - Introduction to Forensic Chemistry GT-SC1

4 Credit(s)

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

CHEM 103L - Introduction to Forensic Chemistry Lab GT-SC1

0 Credit(s)

Required companion laboratory to CHEM 103.

Co-requisite(s): CHEM 103

CHEM 104 - Chemistry in Context GT-SC2

3 Credit(s)

This course is designed to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and in significant issues facing science, technology, and society.

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2

3 Credit(s)

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-

OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

18 Elective Credits from Business or the Sciences

11 Elective Credits

General Education Requirements for Undergraduates

As part of the Graduation Requirements for Undergraduates, Adams State University has prescribed a program of general education for all students seeking associate or baccalaureate degrees. This is done in the belief that our graduates must possess knowledge, skills, competencies, and an acquaintance with major areas of knowledge commonly possessed by educated persons.

Adams State University general education requirements align with the State of Colorado GT-Pathways guaranteed transfer curriculum. Students who have completed the GT-Pathways curriculum in its entirety meet Adams State general education requirements. Likewise, any GT-Pathways course, regardless of where it was completed, will meet the equivalent requirement in the relevant GT-Pathways category.

A variety of courses are available in each general education category that meet the required content and competencies for general education. Many of the general education requirements are included in Adams State Institutional Learning Outcomes, and are indicated with (GT) next to the outcome.

All students must have a minimum GPA of 2.0 in general education courses to graduate (Fall 2011 admittance or later).

General Education Requirements (31 Credits Total)

Area I. Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18
OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T
OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II. Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic

concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments,

and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III. Mathematics (3 credits)

MATH 104 - Finite Mathematics GT-MA1

3 Credit(s)

Topics covered include functions and their graphs, matrices, linear programming, probability, and descriptive statistics. Applications are presented from the areas of biology, business, behavioral sciences, economics, and the social sciences.

Prerequisite(s):

MATH 97 Minimum Grade: S-C or T

OR

MATH 99 Minimum Grade: S-C or T

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

ACT Math - Minimum Score: 19

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T

OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Area IV. Social and Behavioral Sciences/History (9 credits)

- at least one course must be a GT-SS*
- At least one course must be a GT-HII course
- the remaining course may come from either category
- Only one ECON course may be used towards the requirements in this General Education area

GT-SS* Courses

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

GT-HI1 Courses

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V. Physical and Natural Sciences (7 Credits)

One credit must be a lab:

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

CHEM 103 - Introduction to Forensic Chemistry GT-SC1

4 Credit(s)

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the

non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

CHEM 103L - Introduction to Forensic Chemistry Lab GT-SC1

0 Credit(s)

Required companion laboratory to CHEM 103.

Co-requisite(s): CHEM 103

CHEM 104 - Chemistry in Context GT-SC2

3 Credit(s)

This course is designed to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and in significant issues facing science, technology, and society.

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2

3 Credit(s)

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-

OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the

system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

Interdisciplinary Studies

A Bachelor of Arts in Interdisciplinary Studies can be earned in the three following ways

1. Individualized Program of Study
 2. Food Studies, offered through the School of Kinesiology & Health Sciences, with emphases in:
 - Business, Economics, and Policy
 - Health, Exercise and Nutrition
 - Sociology / Social Justice
 - Sustainability
 3. General Agriculture with tracks in both Biology and Business
- Contact the Office of Academic Affairs for information on Department Faculty

Bachelor of Arts in Interdisciplinary Studies, Individualized program of study

Go to: [Interdisciplinary Studies](#)

Students design a degree program that intentionally combines coursework from two different disciplines.

The Bachelor of Arts in Interdisciplinary Studies degree allows students to design a program of study combining two subject areas. No more than 30 credits of coursework with the same prefix can be used to satisfy the combined 40 credits (20 + 20) needed for the emphasis areas (e.g. no more than 30 BUS credits, no more than 30 HIST credits, no more than 30 CHEM credits, etc. can be applied toward the emphases).

Area I (20 Credit Hours)

Area II (20 Credit Hours)

Requirements

- Courses applied toward the Undergraduate General Education Requirements cannot also be used for credit in an emphasis area.
- At least 15 of the required 42 upper-division hours must fall within the (combined) emphasis areas.
- Courses associated with emphasis areas must be completed with a grade of 'C-' or higher.
- At least 12 of the 40 credit hours associated with the emphasis areas must be Adams State University courses.
- At least 30 credit hours (of the required 120) must be Adams State University courses.

Bachelor of Arts in Interdisciplinary Studies, General Agriculture - Biology Emphasis

Go to: Interdisciplinary Studies

This degree is delivered in partnership with Colorado State University. Students will enroll in both ASU face to face classes and CSU online or hybrid courses. Upon successful completion of the degree program, students will have a well-built foundation not only in general education but also in a General Agriculture Biology Track.

Go to: General Agriculture Business Track

Faculty

Benita Brink, Ph.D.

Major Requirements (52-54 credits)

*Colorado State University Online Courses

- HORT 100 - Horticultural Science **3 to 4 Credit(s) ***
OR
- SOCR 100 - General Crops **3 to 4 Credit(s) ***

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

- BSPM 201 - Weed Management and Control **3 Credit(s) ***

GSCI 201 - Introduction to Cartography and GIS

3 Credit(s)

This course will introduce students to the core concepts of Geographic Information Systems (GIS) and the importance and relevance of GIS in today's world. Students will learn what GIS is, what it is used for, and how to perform basic and core tasks involving GIS analysis. An objective is to help students develop the ability to think critically about cartographic processes and representations as well as develop their skills in creating maps. Students are expected to have basic computer proficiency prior to enrolling in this course.

OR

- SOCR 377 - GIS Systems in Agriculture **3 Credit(s) ***

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T

OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

- SOCR 240 - Soil Science **4 Credit(s) ***

OR

GSCI 330 - Nature and Properties of Soils

4 Credit(s)

This course analyzes soils as natural bodies and managed resources, focusing on impacts of landforms, hydrology, nutrients, and organisms on soils. The laboratory includes analysis of soil patterns, methods of sampling, and techniques of determining physical and chemical properties of soils. Course includes three hours of lecture and two hours of laboratory per week.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

- HORT 260 - Plant Propagation **4 Credit(s) ***
- HORT 310 - Greenhouse Management **3 Credit(s) ***

CHEM 321 - Organic Chemistry

4 Credit(s)

A study of the relationship between structure and reactivity of carbon-containing compounds.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 321L

CHEM 321L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 321. Laboratory time will be divided among techniques, preparation, and mechanistic studies.

Co-requisite(s): CHEM 321

- SOCR 350 - Soil Fertility & Management **4 Credit(s) ***
- SOCR 351 - Lab **4 Credit(s) ***

- BSPM 355A - Horticulture Pathology: General Pathology **3 Credit(s) AND ***
- BSPM 355B - Horticulture Pathology: Turf & Ornamental Disease **3 Credit(s) AND ***
- BSPM 355C - Horticulture Pathology: Vegetable & Greenhouse Disease **3 Credit(s) ***
- OR**
- BSPM 361 - Elements of Plant Pathology **3 Credit(s) ***

- HORT 368 - Landscape Irrigation & Water Conservation **2 to 3 Credit(s) ***
- OR**
- SOCR 370 - Irrigation Principles **2 to 3 Credit(s) ***

- SOCR 420 - Crop & Soil Management Systems I **31 Credit(s) AND ***
- SOCR 421 - Crop & Soil Management Systems II **31 Credit(s) ***
- OR**
- HORT 454 - Horticulture Crop Production & Management (Capstone) **1 Credit(s) ***

Biology Track Requirements

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

BIOL 321 - Genetics

3 Credit(s)

A study of Mendelian and molecular genetics of eukaryotes and prokaryotes. Discussions include basic Mendelian principles, meiosis/mitosis, linkage, gene expression, and molecular techniques. Course includes 3 hours of lecture and 1 hour of peer learning activities per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- **OR** T **OR**

BIOL-210 Minimum Grade: C- **OR** T

AND

BIOL 204 Minimum Grade: C- **OR** T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

OR

CHEM-132 Minimum Grade: C- OR T

AND

CHEM-132L Minimum Grade: C- OR T

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

BIOL 332 - Evolution

3 Credit(s)

A study of the history and development of evolutionary theory. Consideration is given to evidence for and mechanisms

of evolution from anatomical, developmental, geological, mathematical, and molecular perspectives. Credit or concurrent registration in BIOL 330 is recommended. This course includes 3 hours of lecture per week.

Prerequisite(s):

BIOL 209 Minimum Grade: C- OR T
AND

BIOL 210 Minimum Grade: C- OR T

BIOL 423 - Plant Physiology

4 Credit(s)

A study of the mechanisms of plant function throughout development from seeds through reproduction. This course includes consideration of metabolism (photosynthesis, respiration, mineral nutrition), water relations, gas exchange, and developmental growth in response to hormones. An integrated laboratory component requires an independently researched project. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 461 - Entomology

3 Credit(s)

Biology of insects with emphasis on anatomy, physiology, natural history, evolution, life cycles, and identification of major groups. This course included two hours of lecture and two hours of lab per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

Plus Electives (9-11 credits)

0-7 credits MUST be upper division credits depending on choices made within the major requirements

Bachelor of Arts in Interdisciplinary Studies, General Agriculture - Business Emphasis

Go to: Interdisciplinary Studies

This degree is delivered in partnership with Colorado State University. Students will enroll in both ASU face to face classes and CSU online or hybrid courses. Upon successful completion of the degree program, students will have a well-built foundation not only in general education but also in a general Agriculture Business Track.

Go to: General Agriculture Biology Track

Faculty

Zena Buser, Ph.D.

Major Requirements (52-54 credits)

*Colorado State University Online Courses

- HORT 100 - Horticultural Science **3 to 4 Credit(s) ***
OR
- SOCR 100 - General Crops **3 to 4 Credit(s) ***

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

- BSPM 201 - Weed Management & Control **3 Credit(s) ***

GSCI 201 - Introduction to Cartography and GIS

3 Credit(s)

This course will introduce students to the core concepts of Geographic Information Systems (GIS) and the importance and relevance of GIS in today's world. Students will learn what GIS is, what it is used for, and how to perform basic and

core tasks involving GIS analysis. An objective is to help students develop the ability to think critically about cartographic processes and representations as well as develop their skills in creating maps. Students are expected to have basic computer proficiency prior to enrolling in this course.

OR

- SOCR 377 - GIS Systems in Agriculture **3 Credit(s) ***

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

- * HORT 260 - Plant Propagation **4 Credit(s) ***
- * HORT 310 - Greenhouse Management **3 Credit(s) ***

- BSPM 355A - Horticulture Pathology: General Pathology **3 Credit(s) * AND**
- BSPM 355B - Horticulture Pathology: Turf & Ornamental Disease **3 Credit(s) * AND**
- BSPM 355C - Horticulture Pathology: Vegetable & Greenhouse Disease **3 Credit(s) * AND**
- **OR**
- BSPM 361 - Elements of Plant Pathology **3 Credit(s) ***

- HORT 368 - Landscape Irrigation & Water Conservation **3 Credit(s) ***
- **OR**
- SOCR 370 - Irrigation Principles **2 to 3 Credit(s) ***

- SOCR 420 - Crop & Soil Management Systems I **1 Credit(s) AND ***
- SOCR 421 - Crop & Soil Management Systems II **1 Credit(s) ***
- **OR**
- HORT 454 - Horticulture Crop Production & Management (Capstone) **1 Credit(s) ***

Business Track Requirements (24 credits)

BUS 105 - Introduction to Agribusiness

3 Credit(s)

An introductory course designed to provide students with a basic background in agribusiness issues and practices to give them the foundation to be successful in upper level agribusiness courses and meet expectations for basic knowledge in agribusiness relationships.

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 364 - Agribusiness Management

3 Credit(s)

Management issues of agricultural businesses such as the forms of ownership, financial statements, analysis, and planning, investment analysis, strategic marketing, management of organizations, and human resources management.

Prerequisite(s):

BUS 105 Minimum Grade: C- OR T
AND

BUS 207 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

BUS 384 - Natural Resources/Water Law

3 Credit(s)

The goal of this course is to provide students with knowledge of the regulatory responsibilities related to agriculture production and operations with respect to natural resources and water. The course will cover federal, state, and local requirements as well as application to agribusiness endeavors.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 211 Minimum Grade: C- OR T

BUS 398 - Farm and Ranch Management

3 Credit(s)

The application of economic and business principles to the management and operation of farms and ranches for decision making purposes.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 207 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

Electives (14-15 credits)

1-7 credits MUST be upper division credits depending on choices within the major requirements.

Bachelors of Arts in Interdisciplinary Studies in Mechanical Engineering

The Bachelors of Arts in Interdisciplinary Studies in Mechanical Engineering is designed exclusively for student athletes who intend to pursue a degree in Mechanical Engineering through the Adams State partnership program with Colorado State University Fort Collins.

Students will be advised into either the 4-year or 5-year plan depending on Math placement and athletic eligibility. The coursework in this program is identical to that of the BS in Engineering, although courses are completed in a different sequence allowing student athletes to remain eligible to compete for Adams State throughout their time in the program.

Student athletes interested in transferring to Colorado State to complete the BS in Mechanical Engineering degree should complete the courses listed on the semester plan provided by their advisor. Students are encouraged to work very closely with their advisor.

Engineering Degree Requirements

First Year Seminar

FYS 101 - First Year Seminar

1 to 3 Credit(s)

First-year students launch into the Adams Experience through a First-Year Seminar (FYS) course. FYS will engage students by creating habits for success, learning to navigate college life, and build skills for success. Each FYS will focus on a unique topic that will be the theme of course discussions, experiences, and assignments. FYS will develop academic and social capital and support a successful transition into higher education, instill lifelong learning, and reinforce student persistence.

General Education Requirements for the Engineering Degree

Area I - Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T

OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II - Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III - Mathematics

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

Area IV - Social and Behavioral Sciences and History

One course designated as GT-SS1 (3 credits)

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

One course designated as GT-HI1 (3 credits)

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V - Natural and Physical Sciences

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

The Following Required Courses

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS

233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T

AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T

AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

Additional Mathematics Courses

MATH 220 - Calculus III

4 Credit(s)

This course is an introduction to the calculus of functions of several variables. Typical topics include three-dimensional analytic geometry, vectors, parametric curves and surfaces, arc length and curvature, limits, continuity, partial derivatives, gradients, directional derivatives, tangent planes, multiple integrals, vector fields, line and surface integrals, Green's theorem, Stokes' Theorem, and the divergence theorem.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 327 - Differential Equations

3 Credit(s)

An introduction to the study and application of ordinary differential equations. Typical topics include first order differential equations, linear differential equations, systems of equations, existence and uniqueness of solutions, bifurcations, the Laplace transform, matrix methods, and stability theorems.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

Colorado State University Engineering Courses (21 credits)

Find out more about these courses by using Colorado State's Online Catalog

- MECH 307 Mechatronics and Measurement
- MECH 324 Dynamics of Machines
- MECH 337 Thermodynamics
- MECH 342 Fluid Mechanics for Mechanical Engineers
- MECH 344 Heat and Mass Transfer
- MECH 325 Machine Design

Required Courses for the 4 Year Plan

- 1 elective course in Mathematics
- 21 general elective credits
- 21 upper division elective credits

Required Courses for the 5 Year Plan

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six

trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T
OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

- 16 general elective credits
- 21 upper division elective credits

Minor in Water Studies

Go to: Interdisciplinary Studies

Water is the "lifeblood" of the San Luis Valley, greatly impacting the people and communities here. Water underlies our connection to the environment and wildlife, culture and history, agriculture and economy, and the strong sense of place that is core to the identity of the people here.

Salazar Rio Grande del Norte Center
SalazarRioGrandeCenter@adams.edu
719-587-8154

Water Studies Minor Degree Plan (18 Credits)

Required Courses (6 Credits)

WATR 101 - Water Essentials: How Water Works

3 Credit(s)

This course is an introduction and overview of water in the West, from its basic chemical structure and physics as well as hydrology and water's role in nature to how water serves and is managed as a beneficial resource for people. This course introduces foundational concepts of water's functional properties, how humans have put water to work and how we have developed systems of water allocation, administration, and management, including an overview of core terminology, and fundamental principles of water management. The course will focus on the Western water environment and issues, with specific discussions on the application and administration of water in Colorado's Rio Grande Basin.

WATR 201 - Fundamentals and Functions of Water

3 Credit(s)

This course is the second in a two-course series emphasizing essential water education. It will expand on fundamental concepts of ground and surface water functions and management as introduced in the prerequisite course, WATR

101 Water Essentials: How Water Works in the West. The design of this course is to explore the hydrologic processes and cycle in terms of both ground and surface water; examine the environmental aspects of watersheds that affect the hydrologic output, including forest health, precipitation accumulation, and infrastructure regulating surface water runoff; examine and analyze the administration of water and agricultural water use, with a focus and field experiences in the San Luis Valley and Rio Grande Basin of Colorado. The course will include required field trips.

Prerequisite(s):

WATR 101 Minimum Grade: C- OR T

Electives (Choose 12 Credits)

ANTH 330 - Humans and Water

3 Credit(s)

This class will explore the relationship between humans and water through space and time, focusing on the American West. We will look at how different cultural groups interact with and manipulate water, as well as how they view the natural resource. In addition, we will analyze how changes in water resources influenced human cultures.

BUS 384 - Natural Resources/Water Law

3 Credit(s)

The goal of this course is to provide students with knowledge of the regulatory responsibilities related to agriculture production and operations with respect to natural resources and water. The course will cover federal, state, and local requirements as well as application to agribusiness endeavors.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 211 Minimum Grade: C- OR T

ECON 360 - Natural Resource Economics

3 Credit(s)

This course studies the usage of natural resources in the economy, the value of natural resources to society, and the allocation of renewable and nonrenewable resources. The course introduces economic theories for efficient management of natural resources and considers sustainability, conservation, and preservation. The course will consider resources, such as water, on a local scale as well as a global scale.

ENG 420 - Environmental Literature

3 Credit(s)

This course is a survey of environmental literature poetry, fiction, and non-fiction spanning from the beginning of the conservation movement with Thoreau through the modern environmental movement with Carson, and to the present

day with a focus on sustainability and the Southwestern United States with attention paid to the environmental impacts on indigenous populations and minority groups and authors, particularly Latinx. Students will analyze, criticize, reflect, and write about the reading, but also reflect upon field visits to farms, ranches, monuments, and parks throughout the region.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

HIST 305 - The American West

3 Credit(s)

Historical survey of the Indian-, Hispanic-, and English-speaking groups of the West. Emphasis is on the frontier period.

HIST 340 - Water and Equity

3 Credit(s)

This course is an examination of water use and distribution among several cultures. Special attention will be devoted to Latino communities and current issues affecting aspects of equity in contemporary water policy.

OES 101 - Outdoor Recreation Essentials

3 Credit(s)

This course is a general introduction to outdoor recreation history, theories, natural resource management, and current trends in the outdoor recreation industry . Students are also introduced to essential outdoor skills for camping and backpacking including trip planning, equipment selection and care, food preparation, Leave No Trace environmental ethics, and risk management. Field trips are required including overnight trips.

OES 370 - Wildland Recreation Management

2 Credit(s)

This course immerses students into the field of recreation ecology. Hands-on experience participating in local stewardship projects with federal and state agencies will be a component of the course. Students will gain knowledge and experience with how agencies and organizations identify recreational impact oriented problems, collect data, prioritize, allocate resources, and collaborate to accomplish conservation and stewardship objectives. Students will practice with professional approaches and strategies for planning and monitoring recreational use. Students are required to participate in a variety of learning experiences in various locations throughout the San Luis Valley.

Co-requisite(s): OES 370L

PHIL 320 - Water Ethics

3 Credit(s)

This class will explore the ethical concerns of water (re)production, usage, and distribution according to concepts of rights and responsibilities, socio-historical conditions, available resources, cultural usage, evaluation, and governance.

Programs by Location

Associate of Arts

As part of the Graduation Requirements for Undergraduates, Complete:

General Education Requirements (31 Credits Total)

Area I. Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T
OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II. Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T
AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III. Mathematics (3 credits)

MATH 104 - Finite Mathematics GT-MA1

3 Credit(s)

Topics covered include functions and their graphs, matrices, linear programming, probability, and descriptive statistics. Applications are presented from the areas of biology, business, behavioral sciences, economics, and the social sciences.

Prerequisite(s):

MATH 97 Minimum Grade: S-C or T

OR

MATH 99 Minimum Grade: S-C or T

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

ACT Math - Minimum Score: 19

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T
OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Area IV. Social and Behavioral Sciences/History (9 credits)

- at least one course must be a GT-SS*
- At least one course must be a GT-HII course
- the remaining course may come from either category
- Only one ECON course may be used towards the requirements in this General Education area

GT-SS* Courses

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

GT-HI1 Courses

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V. Physical and Natural Sciences (7 Credits)

One credit must be a lab:

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C-

or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- OR BIOL-209 Minimum Grade: T OR BIOL-209 Minimum Grade: C- AND (CHEM-131 Minimum Grade: C- OR CHEM-131 Minimum Grade: T) OR (CHEM-111 Minimum Grade: C- OR CHEM-111 Minimum Grade: C- OR CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

CHEM 103 - Introduction to Forensic Chemistry GT-SC1

4 Credit(s)

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

CHEM 103L - Introduction to Forensic Chemistry Lab GT-SC1

0 Credit(s)

Required companion laboratory to CHEM 103.

Co-requisite(s): CHEM 103

CHEM 104 - Chemistry in Context GT-SC2

3 Credit(s)

This course is designed to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and in significant issues facing science, technology, and society.

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2

3 Credit(s)

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-

OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for

students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

29 Elective Credits

Associate of Arts, Social Studies Emphasis

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

As Part of the Graduation Requirements for Undergraduates, Complete:

General Education Requirements (31 Credits Total)

Area I. Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T

OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II. Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III. Mathematics (3 credits)

MATH 104 - Finite Mathematics GT-MA1

3 Credit(s)

Topics covered include functions and their graphs, matrices, linear programming, probability, and descriptive statistics. Applications are presented from the areas of biology, business, behavioral sciences, economics, and the social sciences.

Prerequisite(s):

MATH 97 Minimum Grade: S-C or T
OR

MATH 99 Minimum Grade: S-C or T

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

ACT Math - Minimum Score: 19

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and

geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T
OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Area IV. Social and Behavioral Sciences/History (9 credits)

- at least one course must be a GT-SS*
- At least one course must be a GT-HII course
- the remaining course may come from either category
- Only one ECON course may be used towards the requirements in this General Education area

GT-SS* Courses

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of

the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

GT-HI1 Courses

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V. Physical and Natural Sciences (7 Credits)

One credit must be a lab:

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- OR BIOL-209 Minimum Grade: T OR BIOL-209 Minimum Grade: C- AND (CHEM-131 Minimum Grade: C- OR CHEM-131 Minimum Grade: T) OR (CHEM-111 Minimum Grade: C- OR CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

CHEM 103 - Introduction to Forensic Chemistry GT-SC1

4 Credit(s)

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

CHEM 103L - Introduction to Forensic Chemistry Lab GT-SC1

0 Credit(s)

Required companion laboratory to CHEM 103.

Co-requisite(s): CHEM 103

CHEM 104 - Chemistry in Context GT-SC2

3 Credit(s)

This course is designed to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and in significant issues facing science, technology, and society.

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2

3 Credit(s)

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

Specific Courses Required for This Degree

- History - 9 Credits (in addition to those taken for General Education Area II):

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Government (3 Credits)

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ANTH 205 - Physical Anthropology

3 Credit(s)

The course will examine physical anthropology as a sub discipline of anthropology. The goal is to understand how the physical realities of being human affects the nature of culture. The central theme will be the evolution of humans from the earliest hominid forms to modern Homo sapiens. The course will focus on the mechanisms of evolution, an understanding of primate behavior in general, and the fossil evidence for hominid development.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

Philosophy (6 Credits)

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 202 - Ethics

3 Credit(s)

An examination of criteria governing ethical responses in typical situations as presented by representative thinkers. The application of principles in the development of reasonable standards of conduct and in the formulation of codes of ethics.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

Elective Courses

Students may, in consultation with the department chair of HAPPSS, select enrichment courses with an HGP/HIST/POLS/PHIL/ANTH prefix, another course at the 100- to 200-level approved by the department chair, or any course from the menu above not taken to fulfill content area requirements.

Total completion of a minimum of 60 credits for this degree

Associate of Arts, Studio Art Emphasis

Go to: Art

As part of the Graduation Requirements for Undergraduates, Complete:

General Education Requirements (31 Credits Total)

Area I. Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T

OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II. Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of

musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III. Mathematics (3 credits)

MATH 104 - Finite Mathematics GT-MA1

3 Credit(s)

Topics covered include functions and their graphs, matrices, linear programming, probability, and descriptive statistics. Applications are presented from the areas of biology, business, behavioral sciences, economics, and the social sciences.

Prerequisite(s):

MATH 97 Minimum Grade: S-C or T
OR

MATH 99 Minimum Grade: S-C or T

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

ACT Math - Minimum Score: 19

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory

probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T
OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Area IV. Social and Behavioral Sciences/History (9 credits)

- at least one course must be a GT-SS*
- At least one course must be a GT-HII course
- the remaining course may come from either category
- Only one ECON course may be used towards the requirements in this General Education area

GT-SS* Courses**ANTH 201 - Cultural Anthropology GT-SS3****3 Credit(s)**

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ECON 255 - Macroeconomics Principles GT-SS1**3 Credit(s)**

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1**3 Credit(s)**

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1**3 Credit(s)**

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

PSYC 101 - Introduction to Psychology GT-SS3**3 Credit(s)**

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

GT-HI1 Courses

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V. Physical and Natural Sciences (7 Credits)

One credit must be a lab:

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score:

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- OR BIOL-209 Minimum Grade: T OR BIOL-209 Minimum Grade: C- AND (CHEM-131 Minimum Grade: C- OR CHEM-131 Minimum Grade: T) OR (CHEM-111 Minimum Grade: C- OR CHEM-111 Minimum Grade: C- OR CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

CHEM 103 - Introduction to Forensic Chemistry GT-SC1

4 Credit(s)

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

CHEM 103L - Introduction to Forensic Chemistry Lab GT-SC1

0 Credit(s)

Required companion laboratory to CHEM 103.

Co-requisite(s): CHEM 103

CHEM 104 - Chemistry in Context GT-SC2

3 Credit(s)

This course is designed to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and in significant issues facing science, technology, and society.

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2

3 Credit(s)

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

Required Core courses

AR 105 - Introduction to Art Criticism

3 Credit(s)

This course introduces students to art criticism and critical thinking in the field of visual art. Exercises in reading about art, observing art, and talking and writing about art, will develop the student's ability to discuss their own work and a wide variety of artworks by others. Students will be introduced to and practice techniques for reading, thinking, writing, and speaking critically as applied to art.

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

AR 252 - Beginning 3D - Form and Extended Media

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to fabrication and subtractive processes and materials. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in introductory metal fabrication, CAD/CAM technology, metal casting, and wood or stone carving. This course has a course specific fee to cover the costs of some materials.

Choose 1-3 courses from the following

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

Choose 1-3 courses from the following

- AR 3XX - 3D FXM Rotator **3 Credit(s)**

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-

OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing

3 Credit(s)

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged

to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

Total completion of a minimum of 60 credits for this degree

Associate of Arts, Theatre Emphasis

Go to: Theatre

As Part of the Graduation Requirements for Undergraduates, Complete:

General Education Requirements (31 Credits Total)

Area I. Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test

scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18
OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T
OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II. Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T
AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III. Mathematics (3 credits)

MATH 104 - Finite Mathematics GT-MA1

3 Credit(s)

Topics covered include functions and their graphs, matrices, linear programming, probability, and descriptive statistics. Applications are presented from the areas of biology, business, behavioral sciences, economics, and the social sciences.

Prerequisite(s):

MATH 97 Minimum Grade: S-C or T
OR

MATH 99 Minimum Grade: S-C or T

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

ACT Math - Minimum Score: 19

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers.

Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T

OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Area IV. Social and Behavioral Sciences/History (9 credits)

- at least one course must be a GT-SS*
- At least one course must be a GT-HII course
- the remaining course may come from either category
- Only one ECON course may be used towards the requirements in this General Education area

GT-SS* Courses

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

GT-HI1 Courses

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V. Physical and Natural Sciences (7 Credits)

One credit must be a lab:

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course

includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430
AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

CHEM 103 - Introduction to Forensic Chemistry GT-SC1

4 Credit(s)

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

CHEM 103L - Introduction to Forensic Chemistry Lab GT-SC1

0 Credit(s)

Required companion laboratory to CHEM 103.

Co-requisite(s): CHEM 103

CHEM 104 - Chemistry in Context GT-SC2

3 Credit(s)

This course is designed to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and in significant issues facing science, technology, and society.

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2

3 Credit(s)

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

Completion of the following Theatre Courses

THTR 210 - Stage Makeup

3 Credit(s)

Fundamental elements of design and application of theatre makeup. Painted theatrical makeup, latex, crepe hair, putty wax, prosthetics, and simulated physical trauma will be executed in this course.

THTR 213 - Oral Interpretation of Literature

3 Credit(s)

Helps develop effectiveness in personal expression and abilities in the oral interpretation of fiction, nonfiction, and poetry.

THTR 223 - Acting

3 Credit(s)

An introduction to the art of performing using the Stanislavski system of acting. Classes will consist primarily of in-class activities designed to demonstrate acting concepts and principles. This course requires active participation in discussions, exercises, and the presentation of performances.

THTR 242 - Voice for Performance

3 Credit(s)

Study of the physical nature of voice production and the sound and mechanisms of speech, including articulation, register, and range. Individual analysis and performance.

THTR 288 - Physical Acting

3 Credit(s)

This course focuses on the physical aspects of acting. While previous acting courses introduced techniques dealing with creating a character, script analysis, and scene work, this course explores alternative movement-based approaches to acting. Instructor permission must be obtained to register for this course.

Prerequisite(s):

THTR 223 Minimum Grade: C- OR T

Completion of Portfolio Requirements as specified by the Theatre Department

Total completion of a minimum of 60 credits for this degree

Associate of Science

As Part of the Graduation Requirements for Undergraduates, Complete:

General Education Requirements (31 Credits Total)

Area I. Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T
OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II. Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T
AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III. Mathematics (3 credits)

MATH 104 - Finite Mathematics GT-MA1

3 Credit(s)

Topics covered include functions and their graphs, matrices, linear programming, probability, and descriptive statistics. Applications are presented from the areas of biology, business, behavioral sciences, economics, and the social sciences.

Prerequisite(s):

MATH 97 Minimum Grade: S-C or T
OR

MATH 99 Minimum Grade: S-C or T

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

ACT Math - Minimum Score: 19

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T
OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T
OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T
OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1**5 Credit(s)**

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Area IV. Social and Behavioral Sciences/History (9 credits)

- at least one course must be a GT-SS*
- At least one course must be a GT-HI1 course
- the remaining course may come from either category
- Only one ECON course may be used towards the requirements in this General Education area

GT-SS* Courses**ANTH 201 - Cultural Anthropology GT-SS3****3 Credit(s)**

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ECON 255 - Macroeconomics Principles GT-SS1**3 Credit(s)**

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

GT-HI1 Courses

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V. Physical and Natural Sciences (7 Credits)

One credit must be a lab:

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

CHEM 103 - Introduction to Forensic Chemistry GT-SC1

4 Credit(s)

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

CHEM 103L - Introduction to Forensic Chemistry Lab GT-SC1

0 Credit(s)

Required companion laboratory to CHEM 103.

Co-requisite(s): CHEM 103

CHEM 104 - Chemistry in Context GT-SC2

3 Credit(s)

This course is designed to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and in significant issues facing science, technology, and society.

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T
OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2

3 Credit(s)

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-

OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1**1 Credit(s)**

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1**4 Credit(s)**

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T

AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1**1 Credit(s)**

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T

AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

18 Elective Credits from Business or the Sciences

11 Elective Credits

Associate of Science, Engineering Emphasis

Go to: Engineering and Computer Science

The associate degree is an excellent option for students interested in mechanical engineering but not yet ready to commit to a 4-year degree. Students can also earn a highly sought-after Colorado State University mechanical engineering bachelor's degree from the Adams State University campus in Alamosa, Colorado. Students in the San Luis Valley can stay close to home while learning from distinguished faculty of two universities, and benefit from access to CSU resources.

Find out more about the Bachelor of Science in Mechanical Engineering (Partnership with CSU)

Engineering Degree Requirements

First Year Seminar

FYS 101 - First Year Seminar

1 to 3 Credit(s)

First-year students launch into the Adams Experience through a First-Year Seminar (FYS) course. FYS will engage students by creating habits for success, learning to navigate college life, and build skills for success. Each FYS will focus on a unique topic that will be the theme of course discussions, experiences, and assignments. FYS will develop academic and social capital and support a successful transition into higher education, instill lifelong learning, and reinforce student persistence.

General Education Requirements for the Engineering Degree

Area I - Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass

the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T

OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II - Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and

construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III - Mathematics

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

Area IV - Social and Behavioral Sciences and History

One course designated as GT-SS1 (3 credits)

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

One course designated as GT-HI1 (3 credits)

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V - Natural and Physical Sciences

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

The Following Required Courses

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T

AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

Total: 62 Credits

Note for the Associate of Science, Engineering Emphasis Degree

This Associates degree plan requires only 6 credits from General Education Area IV rather than the standard 9 credits and is an exception in that regard. This exception is necessary due to the external engineering accreditation requirements by ABET which results in a bachelor's degree of 129 credits rather than the usual Colorado maximum of 120 credits. Every engineering degree in the state of Colorado has a "general education waiver" from the common GT-Pathways curriculum requirements.

Associate of Science, General Business Emphasis

Go to: Business

As Part of the Graduation Requirements for Undergraduates, Complete:

General Education Requirements (31 Credits Total)

Area I. Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass

the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T

OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II. Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and

construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III. Mathematics (3 credits)

MATH 104 - Finite Mathematics GT-MA1

3 Credit(s)

Topics covered include functions and their graphs, matrices, linear programming, probability, and descriptive statistics. Applications are presented from the areas of biology, business, behavioral sciences, economics, and the social sciences.

Prerequisite(s):

MATH 97 Minimum Grade: S-C or T
OR

MATH 99 Minimum Grade: S-C or T

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

ACT Math - Minimum Score: 19

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T
OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1**3 Credit(s)**

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T
OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 110 - Introduction to Statistics, GT-MA1**3 Credit(s)**

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T
OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Area IV. Social and Behavioral Sciences/History (9 credits)

- at least one course must be a GT-SS*
- At least one course must be a GT-HII course
- the remaining course may come from either category
- Only one ECON course may be used towards the requirements in this General Education area

GT-SS* Courses

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

GT-HI1 Courses

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V. Physical and Natural Sciences (7 Credits)

One credit must be a lab:

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course

includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430
AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

CHEM 103 - Introduction to Forensic Chemistry GT-SC1

4 Credit(s)

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

CHEM 103L - Introduction to Forensic Chemistry Lab GT-SC1

0 Credit(s)

Required companion laboratory to CHEM 103.

Co-requisite(s): CHEM 103

CHEM 104 - Chemistry in Context GT-SC2

3 Credit(s)

This course is designed to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and in significant issues facing science, technology, and society.

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2

3 Credit(s)

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T

AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

Completion of the Following

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

- BUS or ECON electives (100- or 200-level): **3 Credit(s)**
- Electives: **4 Credit(s)**

Total completion of a minimum of 60 credits for this degree

Bachelor of Arts in Anthropology

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

Required Courses

Core

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ANTH 205 - Physical Anthropology

3 Credit(s)

The course will examine physical anthropology as a sub discipline of anthropology. The goal is to understand how the physical realities of being human affects the nature of culture. The central theme will be the evolution of humans from the earliest hominid forms to modern Homo sapiens. The course will focus on the mechanisms of evolution, an understanding of primate behavior in general, and the fossil evidence for hominid development.

GSCI 201 - Introduction to Cartography and GIS

3 Credit(s)

This course will introduce students to the core concepts of Geographic Information Systems (GIS) and the importance

and relevance of GIS in today's world. Students will learn what GIS is, what it is used for, and how to perform basic and core tasks involving GIS analysis. An objective is to help students develop the ability to think critically about cartographic processes and representations as well as develop their skills in creating maps. Students are expected to have basic computer proficiency prior to enrolling in this course.

PSYC 211 - Introduction to Statistics Lecture/Lab

4 Credit(s)

In this course, students will develop a working appreciation of statistical concepts and applications as employed in the behavioral sciences. The course presents descriptive and inferential statistics and their applications. The laboratory component of this course gives students an opportunity to develop skills in using statistical software.

Prerequisite(s):

PSYC 101 Minimum Grade: C- or T

AND

MATH 97 Minimum Grade: S-A or S-B or S-C or T

OR

MATH 99 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 121 Minimum Grade: C- or T

OR

MATH 140 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

SOC 311 - Social Statistics

4 Credit(s)

This course presents a general overview of the statistical methods most commonly used in sociology and the social sciences. As a laboratory component, students will become proficient in SPSS, a computer program designed to aid statistical analysis. These skills will enable the student to read popular applications of statistics in the media with a critical eye; assess the use of statistics in the professional sociological literature; and use statistical tools to answer the sociological questions of interest.

Prerequisite(s):

SOC 255 Minimum Grade: C-

AND

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

ANTH 300 - Archaeology

3 Credit(s)

This course will provide an overview of archaeological method and theory with a particular emphasis on American archeology, and provide a general survey of prehistory with an emphasis on the western United States.

ANTH 310 - Anthropological Linguistics

3 Credit(s)

After a general introduction to the nature of language (descriptive linguistics) this course will focus on human communication and the uses of language (psycholinguistics and sociolinguistics) and on the language cognition relationship (cognitive anthropology and symbolic anthropology).

ANTH 330 - Humans and Water

3 Credit(s)

This class will explore the relationship between humans and water through space and time, focusing on the American West. We will look at how different cultural groups interact with and manipulate water, as well as how they view the natural resource. In addition, we will analyze how changes in water resources influenced human cultures.

ANTH 360 - Forensic Anthropology

3 Credit(s)

This class examines the science and methods of physical anthropology as it relates to the medico-legal work done to identify unknown human remains in atypical circumstances. This introductory course will introduce students to human osteology and dentition in relation to identifying age, sex, stature, and ancestry, as well as bone pathologies and techniques for estimating time of death and post-mortem changes. As part of the course, some visual materials will depict trauma and decomposition of human remains.

ANTH 349 - Anthropology Internship

3 to 6 Credit(s)

This course provides the student with meaningful hands on experience in the field of Anthropology. Students will engage with internship work at a research library, museum, community organization, government agency, or other applicable institution to enhance their knowledge of sources, research methods, institutional cultures, and potential work environments.

PSYC 355 - Research Methods in Psychology

4 Credit(s)

This course focuses on the procedures and potential problems associated with research in the behavioral sciences. Students learn how to develop research questions, choose an appropriate research design, collect and analyze data using statistical software, interpret results, and write a report using APA style. The laboratory component provides supervised hands-on experience in project development.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

LS 225 Minimum Grade: C- OR T

OR

SOC 455 - Qualitative Research Methods

4 Credit(s)

This course is designed to expose students to a variety of qualitative research methods. Students will be instructed in the fundamentals of research design and implementation, including ethical considerations. Students will read and study

the research projects of selected sociologists. Students will engage in multiple hands-on activities to practice research methods. Each student will design a qualitative research project. In the lab component of the course, students will analyze and interpret qualitative data. Finally, students will learn to conduct content analysis, and use grounding theory to code and analyze their data and write a final project report. This course includes a lab day each week and is a 4-credit course.

Prerequisite(s):

SOC 201 Minimum Grade: C-
AND

SOC 255 Minimum Grade: C-

ANTH 471 - Senior Seminar in Anthropology

3 Credit(s)

This is a capstone course which will cover the central theories that have driven the field of anthropology over the last 200 years. All students enrolled in the Senior Seminar will also write their Senior Comprehensive Examinations as part of the departmental requirement for all History/Government majors.

Plus, select 8 Courses (at least 4 from ANTH) from the following Electives

ANTH 330 - Humans and Water

3 Credit(s)

This class will explore the relationship between humans and water through space and time, focusing on the American West. We will look at how different cultural groups interact with and manipulate water, as well as how they view the natural resource. In addition, we will analyze how changes in water resources influenced human cultures.

ANTH 339 - Field School in Archaeology

6 Credit(s)

The purpose of this course is to provide students with the basic skills, and the theories from which they are derived, necessary to do archaeological fieldwork. The student will learn basic techniques of site identification and recording, excavation, and artifact processing and analysis. In addition, they will learn instrument surveying and introductory applications of geographic information systems. The skills taught will be appropriate for either prehistoric or historic sites.

ANTH 360 - Forensic Anthropology

3 Credit(s)

This class examines the science and methods of physical anthropology as it relates to the medico-legal work done to identify unknown human remains in atypical circumstances. This introductory course will introduce students to human osteology and dentition in relation to identifying age, sex, stature, and ancestry, as well as bone pathologies and techniques for estimating time of death and post-mortem changes. As part of the course, some visual materials will depict trauma and decomposition of human remains.

ANTH 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

ANTH 450 - Southwest Archaeology

3 Credit(s)

This course explores the greater Southwest from the earliest human inhabitants to Spanish colonization. We will discuss significant changes and trends in subsistence, technology, social systems, and political organization over roughly 15,000 years; from hunter-gatherers following mammoths on the landscape to the Pueblo Revolt of 1680. The course will give students an appreciation of the adaptations of people in the Southwest to an often harsh environment, while also introducing them to the methods and theories archaeologists use to understand the past.

ANTH 460 - Medical Anthropology

3 Credit(s)

This course will explore the cross-cultural significance of health and wellness from an anthropological perspective. We will delve into the complex interplay of biological, psychological, social, environmental, and political-economic processes on the concepts of illness, suffering, and healing. Particular emphasis will be placed on the ethnographic approach to the lived context in which wellness and suffering are experienced, narrated, and addressed.

BIOL 321 - Genetics

3 Credit(s)

A study of Mendelian and molecular genetics of eukaryotes and prokaryotes. Discussions include basic Mendelian principles, meiosis/mitosis, linkage, gene expression, and molecular techniques. Course includes 3 hours of lecture and 1 hour of peer learning activities per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

OR

CHEM-132 Minimum Grade: C- OR T

AND

CHEM-132L Minimum Grade: C- OR T

BIOL 332 - Evolution

3 Credit(s)

A study of the history and development of evolutionary theory. Consideration is given to evidence for and mechanisms of evolution from anatomical, developmental, geological, mathematical, and molecular perspectives. Credit or concurrent registration in BIOL 330 is recommended. This course includes 3 hours of lecture per week.

Prerequisite(s):

BIOL 209 Minimum Grade: C- OR T

AND

BIOL 210 Minimum Grade: C- OR T

GSCI 300 - World Geography

3 Credit(s)

The course examines human or cultural geography with a global perspective. It uses a topic centered approach. It is intended to give the student an appreciation of the interaction between physical geography, environment, and cultural practices.

GSCI 321 - Geomorphology with Environmental Applications

4 Credit(s)

This course is a study of the processes that control the development of the materials and landforms found on the earth's surface. An emphasis is placed upon the hydrologic and variables in generating landforms and human interactions with these formative processes. Field trips, topographic map, and aerial photo exercises are required. Offered spring semester of even-numbered years.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 330 - Nature and Properties of Soils

4 Credit(s)

This course analyzes soils as natural bodies and managed resources, focusing on impacts of landforms, hydrology, nutrients, and organisms on soils. The laboratory includes analysis of soil patterns, methods of sampling, and techniques of determining physical and chemical properties of soils. Course includes three hours of lecture and two hours of laboratory per week.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T
AND

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

GSCI 343 - Sedimentology and Stratigraphy

4 Credit(s)

This course studies the origin and occurrence of sedimentary materials and their vertical succession. Sediment dynamics and structures will be explored within various depositional settings. Course includes required field trips. GSCI-343 is complementary to Igneous and Metamorphic Petrology (GSCI-334).

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 420 - Remote Sensing

4 Credit(s)

The course considers acquisition and interpretation of remote sensed environmental data, theory and sensors, and manual and computerized interpretation methods.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T
AND

GSCI 201 Minimum Grade: C- OR T

HIST 305 - The American West

3 Credit(s)

Historical survey of the Indian-, Hispanic-, and English-speaking groups of the West. Emphasis is on the frontier period.

HIST 328 - Chicano History

3 Credit(s)

A survey of the historical development of the character, economy, social structure, politics, culture, and ideas of the Spanish-speaking people of Mexican descent in the U.S. from settlement until present, with particular attention given to the San Luis Valley.

POLS 393 - Women, Politics, and Culture

3 Credit(s)

Interdisciplinary analysis of politics and culture. Course examines the role of gender in the political culture of the United States and selected societies in industrialized and developing nations. Of special interest to those wishing to pursue an interest in women's studies and/or cultural anthropology.

PSYC 315 - Multicultural Issues

3 Credit(s)

In this course, students will explore various components of a multicultural society and the impact of social and cultural forces on identity development and formation. The processes of acculturation and assimilation will be discussed. Students will also gain insight into their own cultural experiences in a pluralistic society.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

PSYC 455 - Evolutionary Psychology

3 Credit(s)

This course provides students with a detailed and thorough examination of the impact of evolution on human behavior and mental processes. An emphasis using animal behavior and evolutionary processes as a model for understanding human behavior will be utilized. Students will also be exposed to a variety of topics including, the importance of science, the evidence for evolution, selective breeding, genetic and ecological contributions to behavior, the biological constraints on learning, the development of higher mental processes, complex social behavior, and sex differences in mating behavior and cognition.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

SOC 318 - Race, Class, and Gender

3 Credit(s)

The focus of this course is on the interrelated ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result and the dynamics of change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

Note

- Students must successfully complete Senior Assessment Procedures.
- Students may opt to complete the B.A. in HAPS at an accelerated pace to complete the degree in 3 years. Students desiring this option should contact an HAPS advisor.

Bachelor of Arts in Art Education, K-12 Licensure

Go to: Bachelor of Arts, K-12 Education Licensure

Go to: Art

Choose this degree if your goal is to specifically teach art in a K-12 classroom. As an Art Education major, you will spend time developing your personal artistic skills. However, you will also engage in educational theories, explore teaching methods, and participate in field experiences that are all required for teaching certification. Art Education majors have an advisor in both the Art and Education departments.

Degree Requirements

Art Requirements (51-54 Credits)

AR 105 - Introduction to Art Criticism

3 Credit(s)

This course introduces students to art criticism and critical thinking in the field of visual art. Exercises in reading about art, observing art, and talking and writing about art, will develop the student's ability to discuss their own work and a wide variety of artworks by others. Students will be introduced to and practice techniques for reading, thinking, writing, and speaking critically as applied to art.

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

AR 216 - Introduction to Art Education

3 Credit(s)

This course is a study of art education as influenced by educational and philosophical developments throughout history as well as an exploration of current art education topics and approaches for teaching art in traditional and non-traditional settings. A background check must be completed through the Department of Teacher Education. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

Teacher Education Background Check Passed

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 252 - Beginning 3D - Form and Extended Media

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to fabrication and subtractive processes and materials. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in introductory metal fabrication, CAD/CAM technology, metal casting, and wood or stone carving. This course has a course specific fee to cover the costs of some materials.

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

OR

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

OR

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

AR 334 - Elementary School Art Education Methods

3 Credit(s)

A course designed to explore the theoretical and practical approaches to implementing a program of art education for grades K-6. Emphasis is placed on strategies that will encourage a discipline-based art education model of instruction. Through hands-on involvement in various art media, students are given opportunities for creative problem solving. A background check must be completed through the Department of Teacher Education. This course has a course specific fee to cover the costs of some materials. A 20-hour, supervised field-based experience is a course requirement. Students

will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Teacher Education Background Check Passed
AND

AR 216 Minimum Grade: C OR T

AND

ED 200 Minimum Grade: C OR T

OR

ED 220 Minimum Grade: C OR T

AR 335 - Secondary School Art Education Methods

3 Credit(s)

In this advanced course of study, students are given the opportunity to explore more completely those professional practices utilized in the teaching of art in the secondary school. Through hands-on involvement in various media, students are given opportunities for creative problem solving. This course is intended for juniors and seniors. Freshmen and sophomores cannot enroll in this course. A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

ED 200 Minimum Grade: C OR T
OR

ED 220 Minimum Grade: C OR T

AND

AR 334 Minimum Grade: C OR T

AND

Teacher Education Background Check Passed

AR 364 - History of Art I

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms prehistoric times to the Eighteenth Century.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 365 - History of Art II

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms from the 18th Century to the 21st Century. Additionally this course includes a brief survey of the arts of African, Asian, and Native American cultures.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

Plus 3 Hours From The Following:

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 306 - Illustrator

3 Credit(s)

This course is an advanced design class. Using Adobe Illustrator, students will study design concepts related to computer graphics, illustration, and typography as well as historical traditions in graphic design.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T

OR

AR 281 Minimum Grade: C- OR T

AR 310 - Photoshop

3 Credit(s)

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T

OR

AR 281 Minimum Grade: C- OR T

Art Emphasis Area

Complete a 9 hour area of emphasis in one of the following areas: Art History, Drawing, Painting, Photography, Printmaking, Form and Extended Media (these 9 hours will include classes from the above areas, to add a minimum of 3 hours or a maximum of 6 hours depending on the chosen emphasis).

Plus Additional K-12 Licensure Requirements from the School of Education

Bachelor of Arts, K-12 Education Licensure

Bachelor of Arts in Biology, Liberal Arts Emphasis

Go to: Biology

Core Requirements

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

BIOL 321 - Genetics

3 Credit(s)

A study of Mendelian and molecular genetics of eukaryotes and prokaryotes. Discussions include basic Mendelian principles, meiosis/mitosis, linkage, gene expression, and molecular techniques. Course includes 3 hours of lecture and 1 hour of peer learning activities per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

OR

CHEM-132 Minimum Grade: C- OR T

AND

CHEM-132L Minimum Grade: C- OR T

BIOL 323 - Cellular Biology

3 Credit(s)

The study of higher plant and animal cells and tissues at the biochemical level including: organelle structure, function, and metabolic role; cell growth, differentiation and specialization; and a survey of instrumentation and methodologies for investigating life processes at the biochemical level. Course includes three hours of lecture per week. Concurrent

registration in BIOL 321 and BIOL 325 is recommended.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

BIOL 325 - Cellular Biology/Genetics Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with BIOL 321 and BIOL 323. Laboratory exercises in this course are designed to demonstrate, complement, and extend concepts considered in BIOL 321 and BIOL 323.

Students will engage in exercises involving a variety of techniques in which data pertinent to both disciplines will be gathered and analyzed. Course includes 3 hours of laboratory per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

AND

CHEM 111L Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 131L Minimum Grade: C- OR T

Co-requisite(s): BIOL 321 BIOL 323

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

BIOL 332 - Evolution

3 Credit(s)

A study of the history and development of evolutionary theory. Consideration is given to evidence for and mechanisms of evolution from anatomical, developmental, geological, mathematical, and molecular perspectives. Credit or concurrent registration in BIOL 330 is recommended. This course includes 3 hours of lecture per week.

Prerequisite(s):

BIOL 209 Minimum Grade: C- OR T

AND

BIOL 210 Minimum Grade: C- OR T

- Choose two 400-level biology courses **3-4 Credit(s)**

Completion of required support courses

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T

OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 112 - Introduction to Organic/Biological Chemistry

4 Credit(s)

A study of the fundamental concepts of organic chemistry and biochemistry. Will not satisfy requirements for a chemistry major, minor or pre-professional studies (pre-med etc.) The course is satisfactory for biology majors who take only one year of chemistry, and for HPPE advanced track.

Prerequisite(s):

CHEM 111 Minimum Grade: C- OR T
OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 112L

CHEM 112L - Introduction to Organic/Biological Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 112.

Co-requisite(s): CHEM 112

OR

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

CHEM 321 - Organic Chemistry

4 Credit(s)

A study of the relationship between structure and reactivity of carbon-containing compounds.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 321L

CHEM 321L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 321. Laboratory time will be divided among techniques, preparation, and mechanistic studies.

Co-requisite(s): CHEM 321

Note

For the Bachelor of Arts in Biology, a minor of the student's choice must be completed.

Bachelor of Arts in Biology, Science Education Emphasis with Secondary Teacher Licensure

Go to: Bachelor of Arts, Secondary Education Licensure

Go to: Biology

Core Requirements

Completion of the following required courses:

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score:

18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- OR BIOL-209 Minimum Grade: T OR BIOL-209 Minimum Grade: C- AND (CHEM-131 Minimum Grade: C- OR CHEM-131 Minimum Grade: T) OR (CHEM-111 Minimum Grade: C- OR CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

BIOL 321 - Genetics

3 Credit(s)

A study of Mendelian and molecular genetics of eukaryotes and prokaryotes. Discussions include basic Mendelian principles, meiosis/mitosis, linkage, gene expression, and molecular techniques. Course includes 3 hours of lecture and 1 hour of peer learning activities per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

OR

CHEM-132 Minimum Grade: C- OR T

AND

CHEM-132L Minimum Grade: C- OR T

BIOL 323 - Cellular Biology

3 Credit(s)

The study of higher plant and animal cells and tissues at the biochemical level including: organelle structure, function, and metabolic role; cell growth, differentiation and specialization; and a survey of instrumentation and methodologies for investigating life processes at the biochemical level. Course includes three hours of lecture per week. Concurrent registration in BIOL 321 and BIOL 325 is recommended.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

BIOL 325 - Cellular Biology/Genetics Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with BIOL 321 and BIOL 323. Laboratory exercises in this course are designed to demonstrate, complement, and extend concepts considered in BIOL 321 and BIOL 323. Students will engage in exercises involving a variety of techniques in which data pertinent to both disciplines will be gathered and analyzed. Course includes 3 hours of laboratory per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

AND

CHEM 111L Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 131L Minimum Grade: C- OR T

Co-requisite(s): BIOL 321 BIOL 323

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T
AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

BIOL 332 - Evolution

3 Credit(s)

A study of the history and development of evolutionary theory. Consideration is given to evidence for and mechanisms of evolution from anatomical, developmental, geological, mathematical, and molecular perspectives. Credit or concurrent registration in BIOL 330 is recommended. This course includes 3 hours of lecture per week.

Prerequisite(s):

BIOL 209 Minimum Grade: C- OR T
AND

BIOL 210 Minimum Grade: C- OR T

BIOL 493 - Thesis I

1 Credit(s)

First in a series of two capstone courses for biology majors designed to review and synthesize their biological background. The emphasis is on writing an independent research paper, or formal literature review of a selected topic in biology. Emphasis is on writing as a process and effective peer review. Course includes 2 hours of lecture per week. A minimum of six credit hours of 400- level biology coursework with grades C or better, or permission of the biology department is required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

Plus a Minimum of 4 Credits from the Following

BIOL 417 - Vascular Plant Systematics

4 Credit(s)

A study of vascular plants (tracheophytes), including phylogeny, taxonomy, molecular systematics, reproduction, ecological relationships, identification, collection, and preservation. Course includes 3 hours of lecture and 3 hours of laboratory per week

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 420 - Mycology

4 Credit(s)

A study of the biology of fungi with emphasis on their identification, classification, morphology, development, ecology, and economic significance. Course includes three hours of lecture and three hours of laboratory per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 423 - Plant Physiology

4 Credit(s)

A study of the mechanisms of plant function throughout development from seeds through reproduction. This course includes consideration of metabolism (photosynthesis, respiration, mineral nutrition), water relations, gas exchange, and developmental growth in response to hormones. An integrated laboratory component requires an independently researched project. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 430 - Plant Ecology

4 Credit(s)

A study of the physiological mechanisms underlying plant responses to abiotic constraints. Topics will include the function of plants and plant communities in relation to soils, climate, other plants, animals, and human activity. Course includes 3 hours of lecture and 3 hours of laboratory/field exercises per week. BIOL 417 is recommended.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

Plus a Minimum of Three Credits from the Following

BIOL 440 - Invertebrate Zoology

4 Credit(s)

A survey of the major groups of invertebrate animals from the Protozoa through Chordata with emphasis on anatomy, ecology, evolution, physiology, and taxonomy. Relationships will be demonstrated through study of selected invertebrate types including marine, freshwater, and terrestrial species. Course includes 3 hours of lecture and 3 hours of laboratory per week and is offered during spring term of even-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 460 - Ornithology

3 Credit(s)

An integrated lecture and laboratory course covering the major taxonomic groups of birds, their ecology, evolutionary fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Lecture topics are supplemented with laboratory and field identification. Course includes three hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 461 - Entomology

3 Credit(s)

Biology of insects with emphasis on anatomy, physiology, natural history, evolution, life cycles, and identification of major groups. This course included two hours of lecture and two hours of lab per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 463 - Ichthyology

3 Credit(s)

An integrated lecture and laboratory course covering the major economic groups of fishes, their ecology, evolutionary relationships, fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Course includes three hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 464 - Mammalogy

3 Credit(s)

An integrated lecture and laboratory course covering the major taxonomic groups of mammals, their ecology, evolutionary relationships, fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Course includes 3 hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 471 - Herpetology

3 Credit(s)

An integrated lecture and laboratory course covering the major taxonomic groups of amphibians and reptiles, their ecology, evolutionary relationships, fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Course includes three hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

Plus a Minimum of Three Credits from the Following

BIOL 404 - Physiological Zoology

3 Credit(s)

Consideration of structural, functional, and behavioral aspects of physiological mechanisms within an ecological context. Adaptations of animals in response to common, changing, and/or extreme environmental stresses will be emphasized at both proximate and ultimate levels of inquiry. This course includes 3 hours of lecture per week and is offered during spring term of odd-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 408 - Developmental Biology

4 Credit(s)

A lecture and laboratory exploration of the principles of cellular differentiation, morphogenesis, and development with emphasis on underlying genetic mechanisms. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 411 - Comparative Anatomy

4 Credit(s)

An integrated lecture/laboratory investigation of the anatomy and functional morphology of the major groups of chordates and vertebrates with emphasis on the comparative method, anatomical changes through evolutionary history, and inferential reconstruction of phyletic evolutionary descent. Course includes 3 hours of lecture and 3 hours of laboratory per week and is offered during fall term of odd-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 448 - Microbiology

4 Credit(s)

The study of bacteria, fungi, protozoans, and viruses with emphasis on their morphology, physiology, and medical and ecological interactions with human populations. Laboratory exercises are designed to provide experience in handling microorganisms, identification of bacteria, isolation of bacteriophages, and other basic principles of microbiology. Course includes 3 hours of lecture and 3 hours of laboratory per week. Chemistry 321/321L and CHEM-322/322L are recommended.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

Completion of Required Support Courses

CHEM 112 - Introduction to Organic/Biological Chemistry

4 Credit(s)

A study of the fundamental concepts of organic chemistry and biochemistry. Will not satisfy requirements for a chemistry major, minor or pre-professional studies (pre-med etc.) The course is satisfactory for biology majors who take only one year of chemistry, and for HPPE advanced track.

Prerequisite(s):

CHEM 111 Minimum Grade: C- OR T
OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 112L

CHEM 112L - Introduction to Organic/Biological Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 112.

Co-requisite(s): CHEM 112

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 226 - College Physics II

5 Credit(s)

The second course of a two-semester lecture-laboratory sequence introducing the fundamental principles of physics. In the second semester, students will be introduced to the areas of electricity, electric circuits, optics, and topics in modern physics. Conceptual understanding as well as problem-solving techniques will be emphasized in the lecture. The laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture.

Prerequisite(s):

PHYS 225 Minimum Grade: C- OR T

Recommended Courses

BIOL 205 - Human Anatomy and Physiology I

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body.

Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The integumentary, skeletal, muscular, and nervous systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Test - Minimum Score: 3 **OR** MATH 97 Minimum Grade: S or S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T and SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18 **OR** ENG 96 Minimum Grade: S or T

BIOL 206 - Human Anatomy and Physiology II

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The digestive, respiratory, circulatory, urinary, endocrine, and reproductive systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL 205 Minimum Grade: C- or T
OR

BIOL 210 Minimum Grade: C- or T

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 407 - Comparative Animal Physiology

4 Credit(s)

A lecture and laboratory course in which physiological principles common to all major animal phyla are discussed. Consideration of function ranges from biochemical to organismal levels and the comparative method is emphasized in the examination of physiological adaptations required to live in a variety of environments. Course includes 3 hours of lecture and 3 hours of laboratory per week and is offered during fall term of even-numbered years. Biochemistry

(CHEM-401 and 402) and senior standing are recommended.

Prerequisite(s):

BIOL-321 Minimum Grade: C- OR T
AND

BIOL-323 Minimum Grade: C- OR T
AND

BIOL-325 Minimum Grade: C- OR T
AND

BIOL-330 Minimum Grade: C- OR T
AND

BIOL-332 Minimum Grade: C- OR T
AND

CHEM-321 Minimum Grade: C- OR T
AND

CHEM-321L Minimum Grade: C- OR T
AND

CHEM-322 Minimum Grade: C- OR T
AND

CHEM-322L Minimum Grade: C- OR T

BIOL 448 - Microbiology

4 Credit(s)

The study of bacteria, fungi, protozoans, and viruses with emphasis on their morphology, physiology, and medical and ecological interactions with human populations. Laboratory exercises are designed to provide experience in handling microorganisms, identification of bacteria, isolation of bacteriophages, and other basic principles of microbiology. Course includes 3 hours of lecture and 3 hours of laboratory per week. Chemistry 321/321L and CHEM-322/322L are recommended.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T
AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 476 - Molecular Biology

5 Credit(s)

An introduction to the study of nucleic acids, genomes and molecular mechanisms with emphasis on genome organization, gene expression, and the techniques used in the study of molecular biology. Laboratory exercises will include standard methodologies such as restriction mapping, cloning, hybridization, DNA libraries, and PCR. Course includes three hours of lecture and four hours of laboratory per week. Senior standing is recommended.

Prerequisite(s):

BIOL 448 Minimum Grade: C- OR T

OR

CHEM 401 Minimum Grade: C- OR T

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

GSCI 112 - Earth History

4 Credit(s)

Introduction to the geological evolution of the earth through time using basic principles of stratigraphy and paleontology. Laboratory work includes identification and classification of fossils and correlation of sedimentary environments.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T

OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

Plus other courses required by the School of Education

Bachelor of Arts, Secondary Education Licensure

Bachelor of Arts in Business Administration, Advertising Emphasis

Go to: Business

In addition to the Graduation Requirements for Undergraduates:

Advertising Emphasis

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

Plus 4 Courses of the Following

AR 301 - Typography

3 Credit(s)

This course is intended primarily for art majors who chose graphic design as their area of emphasis. It is also open to any other art major or non-art major. This course will focus on a broad study of typography, its terminology, history, and application in the field of graphic design.

Prerequisite(s):

AR 206 Minimum Grade: C- OR T

AR 306 - Illustrator

3 Credit(s)

This course is an advanced design class. Using Adobe Illustrator, students will study design concepts related to computer graphics, illustration, and typography as well as historical traditions in graphic design.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T

OR

AR 281 Minimum Grade: C- OR T

AR 310 - Photoshop

3 Credit(s)

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T

OR

AR 281 Minimum Grade: C- OR T

AR 312 - Design for the Internet

3 Credit(s)

This course will provide an introduction to theories and practical experience with graphic design as applied to the Internet. Students will study the basics in web page and web site design using current industry standard software, HTML and XHTML. Within the course, students will create web pages and sites suitable for course work, professional purposes, and personal use. Students will also explore common web page formats and functions. Emphasis will be on the aesthetics of Internet design.

AR 381 - Intermediate Digital Photography

3 Credit(s)

Continued exploration of digital photography as an art medium. The course will delve further into photographic applications in Adobe Photoshop with emphasis on maximizing image quality using masks and blending modes. Introduction to fine art printing and papers. Emphasis on concept and creative expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 281 Minimum Grade: C- OR T

AR 401 - Advanced Graphic Design

3 Credit(s)

An advanced study of the design relating to the work of the graphic designer. Students learn PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 306 Minimum Grade: C- OR T

AND

AR 310 Minimum Grade: C- OR T

Complete these Required Courses

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 335 - Consumer Behavior

3 Credit(s)

Study of consumer behavior as it relates to the marketing functions. Emphasis on the models of consumer behavior and their application to practical marketing problems.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 345 - Advertising

3 Credit(s)

Discusses the history, purposes, and regulations of the advertising industry. Topics covered include creative principles, media advantages and disadvantages, media planning, regulation of advertising, and coordination with other promotion activities.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 448 - Interactive/Social Media Marketing

3 Credit(s)

This course focuses on relationship marketing, interactive marketing, integration of consumer data, Internet marketing (E-commerce), media advertising, catalogs, mailing lists, telemarketing, and the use of direct marketing techniques to replace or enhance the traditional marketing methods of retail and direct sales.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 454 - Market Research & Information

3 Credit(s)

Study of the theory and methods used in marketing research to address marketing problems. May include the completion of a research project where students learn by performing a research project from problem formulation to writing a research report. Also prepares the students for evaluating research performed by others.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T
AND

BUS 318 Minimum Grade: C- OR T

BUS 460 - Marketing Management

3 Credit(s)

Twelve hours of marketing courses and senior status required. Capstone course in marketing. Study of the problems faced by marketing managers as they make decisions and develop policies.

Prerequisite(s):

BUS 454 Minimum Grade: C- OR T

BUS 466 - Business Ethics Decision Making

3 Credit(s)

This course explores various ethical issues facing business leaders in modern society. Students will utilize current

issues to analyze ethical dilemmas and decision-making processes common to modern organizations. Emphasizes critical thinking, critical reading, and the importance of professional ethics.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

Plus 9 credits from speech and/or journalism

Plus 6 credits from business

Bachelor of Arts in Business Administration, Business Teacher Education Emphasis with Secondary Teacher Licensure

Go to: Bachelor of Arts, Secondary Education Licensure

Go to: Business

Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 320 - Bus Computer Applications II

3 Credit(s)

The focus of this course is to explore application software on a comprehensive level to gain expertise to support

decision-making and manage information. Study includes intermediate Word and Excel applications; intermediate to advanced PowerPoint; intermediate Access, integration of Office applications, and an introduction to HTML and building web pages.

Prerequisite(s):

BUS 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

BUS 513 - Methods of Teaching Business Education

3 Credit(s)

Topics include high school business curriculum, high school business student organizations, distributive education, cooperative office education, vocation certification, business textbook catalogs, equipment and classroom techniques using learning styles and multimedia methods.

Plus completion of 1 of the following areas of specialization

Accounting

BUS 305 - Intermediate Accounting I

4 Credit(s)

The first of a two-course sequence of Intermediate Accounting designed to develop a framework for the role financial accounting plays in the world of business. A study of the conceptual basis of accounting will be conducted, creating a more in-depth understanding of the preparation and interpretation of financial statements and related information. This course will focus on the study of modern-day accounting theory and application of generally accepted accounting principles to various topics and financial statement elements. Students will be introduced to the U.S. Accounting Standards Codification and basic research tools.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

OR

BUS 307 - Managerial Cost Accounting I

3 Credit(s)

Principles and methods of recording and interpreting cost data. Major emphasis on developing accounting information for planning, control, and decision making.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

Marketing - 6 Credits from the following

BUS 315 - Sales and Sales Management

3 Credit(s)

This course is designed to introduce students to management techniques as they relate specifically to the marketing and

sales area. Topics covered include: the selling process, compensation systems, motivation and leadership, time and territory management, sales forecasting, quotas, and evaluating the sales force.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 335 - Consumer Behavior

3 Credit(s)

Study of consumer behavior as it relates to the marketing functions. Emphasis on the models of consumer behavior and their application to practical marketing problems.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 345 - Advertising

3 Credit(s)

Discusses the history, purposes, and regulations of the advertising industry. Topics covered include creative principles, media advantages and disadvantages, media planning, regulation of advertising, and coordination with other promotion activities.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 385 - Sports Marketing

3 Credit(s)

Illustrates the dynamic, progressive and influential nature of sports marketing. Explores the sport marketing concept as a consumer-driven, integrated, goal-oriented philosophy for a team, event, organization or athlete. Topics covered include: athletic endorsements, team sports, event sponsorships and alternative sports.

BUS 448 - Interactive/Social Media Marketing

3 Credit(s)

This course focuses on relationship marketing, interactive marketing, integration of consumer data, Internet marketing (E-commerce), media advertising, catalogs, mailing lists, telemarketing, and the use of direct marketing techniques to replace or enhance the traditional marketing methods of retail and direct sales.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 449 - Marketing in the 21st Century

3 Credit(s)

This course provides the practical tools and strategies required to successfully leverage social networks, capitalize on

their powerful word-of-mouth lift, and how to measure these interactive marketing efforts. These tools will be used on an actual social media marketing campaign for a business or non-profit entity. Current and future marketing tools will be discussed and evaluated.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T
AND

BUS 448 Minimum Grade: C- OR T

Plus Additional Secondary Education Licensure Requirements from the School of Education

Bachelor of Arts, Secondary Education Licensure

Bachelor of Arts in Business Administration, Digital Marketing Emphasis

Go to: Business

Specific courses required for this degree:

Digital Marketing Courses

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

AR 310 - Photoshop

3 Credit(s)

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

AR 401 - Advanced Graphic Design

3 Credit(s)

An advanced study of the design relating to the work of the graphic designer. Students learn PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 306 Minimum Grade: C- OR T
AND

AR 310 Minimum Grade: C- OR T

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 315 - Sales and Sales Management

3 Credit(s)

This course is designed to introduce students to management techniques as they relate specifically to the marketing and sales area. Topics covered include: the selling process, compensation systems, motivation and leadership, time and territory management, sales forecasting, quotas, and evaluating the sales force.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 335 - Consumer Behavior

3 Credit(s)

Study of consumer behavior as it relates to the marketing functions. Emphasis on the models of consumer behavior and their application to practical marketing problems.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 345 - Advertising

3 Credit(s)

Discusses the history, purposes, and regulations of the advertising industry. Topics covered include creative principles, media advantages and disadvantages, media planning, regulation of advertising, and coordination with other promotion activities.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and

controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 448 - Interactive/Social Media Marketing

3 Credit(s)

This course focuses on relationship marketing, interactive marketing, integration of consumer data, Internet marketing (E-commerce), media advertising, catalogs, mailing lists, telemarketing, and the use of direct marketing techniques to replace or enhance the traditional marketing methods of retail and direct sales.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 454 - Market Research & Information

3 Credit(s)

Study of the theory and methods used in marketing research to address marketing problems. May include the completion of a research project where students learn by performing a research project from problem formulation to writing a research report. Also prepares the students for evaluating research performed by others.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 460 - Marketing Management

3 Credit(s)

Twelve hours of marketing courses and senior status required. Capstone course in marketing. Study of the problems faced by marketing managers as they make decisions and develop policies.

Prerequisite(s):

BUS 454 Minimum Grade: C- OR T

BUS 467 - Creativity and Innovation

3 Credit(s)

Course objectives are to develop skills in generating new and original ideas, increase ability to convert ideas into action and success, and increase knowledge and skill in creative problem solving as applied to business scenarios.

Prerequisite(s):

BUS 361 Minimum Grade: C-

COMM 230 - Media Writing

3 Credit(s)

Students will survey the fundamental types of media writing, including inverted pyramid news writing, feature writing, blogging, and screenplays. News literacy will also be covered.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

COMM 280 - Visual Literacy

3 Credit(s)

This course will decode the messages behind visual communication by covering concepts of photography, television, film, digital imagery, social media, video games, etc. Students will interrogate visual meaning, and even create visual messages using standard industry practices.

Prerequisite(s):

ENG 102 Minimum Grade: C-

COMM 285 - Digital Media Production

3 Credit(s)

Teaches skills needed to produce effective digital media in print, audio, and video formats. Students are encouraged to take this course concurrently with newspaper, radio, and/or video practicum.

COMM 293 - Media Practicum

3 Credit(s)

Students will work hands-on to learn various media industry-related skills. Students will deejay for Grizz Sound, and/or create podcasts, write for The Paw Print, and create a short video piece.

Prerequisite(s):

COMM 230 Minimum Grade: C- OR T

Plus 9 Hours from the Following

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time

based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 301 - Typography

3 Credit(s)

This course is intended primarily for art majors who chose graphic design as their area of emphasis. It is also open to any other art major or non-art major. This course will focus on a broad study of typography, its terminology, history, and application in the field of graphic design.

Prerequisite(s):

AR 206 Minimum Grade: C- OR T

AR 312 - Design for the Internet

3 Credit(s)

This course will provide an introduction to theories and practical experience with graphic design as applied to the Internet. Students will study the basics in web page and web site design using current industry standard software, HTML and XHTML. Within the course, students will create web pages and sites suitable for course work, professional purposes, and personal use. Students will also explore common web page formats and functions. Emphasis will be on the aesthetics of Internet design.

AR 381 - Intermediate Digital Photography

3 Credit(s)

Continued exploration of digital photography as an art medium. The course will delve further into photographic applications in Adobe Photoshop with emphasis on maximizing image quality using masks and blending modes. Introduction to fine art printing and papers. Emphasis on concept and creative expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 281 Minimum Grade: C- OR T

AR 484 - Advanced Photography I

3 Credit(s)

Continued exploration of photography as an art medium with emphasis on expression and technique. Emphasis on development of a personal style and approach to the medium. Students will work with the instructor to determine techniques appropriate for their individual goals. Digital Techniques will be emphasized during the spring semester and traditional techniques in the fall semester. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 380 Minimum Grade: C- OR T
OR

AR 381 Minimum Grade: C- OR T

OR

AR 485 - Advanced Photography II

3 Credit(s)

Continued exploration of photography as an art medium with emphasis on expression and technique. Emphasis on development of a personal style and approach to the medium. Students will work with the instructor to determine techniques appropriate for their individual goals. Digital Techniques will be emphasized during the spring semester and traditional techniques in the fall semester. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 484 Minimum Grade: C- OR T

BUS 381 - Business Internship

1 to 3 Credit(s)

Junior standing and approval of the department chair required. The internships are planned, meaningful work experiences that are academic in nature. Supervision consists of a site supervisor who is a qualified professional in the business or organization where the internship is arranged and a faculty sponsor who is a full-time professor in the School of Business, usually from the student's major. The site supervisor evaluates the work performed by the student on the job. The faculty sponsor is responsible for maintenance of academic quality and assigns the course grade. (30 contact hours=1 credit hour)

OR

BUS 481 - Business Internship II

1 to 3 Credit(s)

Senior standing and approval of the Department Chair required. The internships are planned, meaningful work experiences that are academic in nature. Supervision consists of a site supervisor who is a qualified professional in the business or organization where the internship is arranged and a faculty sponsor who is a full-time professor in the School of Business, usually from the student's major. The site supervisor evaluates the work performed by the student on the job. The faculty sponsor is responsible for maintenance of academic quality and assigns the course grade (30 contact hours=1 credit hour).

BUS 466 - Business Ethics Decision Making

3 Credit(s)

This course explores various ethical issues facing business leaders in modern society. Students will utilize current issues to analyze ethical dilemmas and decision-making processes common to modern organizations. Emphasizes critical thinking, critical reading, and the importance of professional ethics.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated

understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

COMM 345 - Business of Radio and TV

3 Credit(s)

This course is designed for majors of Communication & Media, Media Industry & Communication, Public Relations, and other majors who are interested in careers in the radio and television industries. Students will study in-depth as to how the radio and television industries operate.

COMM 355 - Public Relations and Strategic Communication

3 Credit(s)

Students will study the theoretical and practical elements of the field of public relations and the use of strategic communication. Student will then compose public relations materials applying the elements studied.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

COMM 365 - Digital Filmmaking

3 Credit(s)

This course covers the aesthetics and practice of narrative, documentary, and experimental media production using a variety of digital filmmaking tools including digital photography, digital video, audio recorders, and editing software. Students will complete video products they can post to YouTube and similar sites.

Prerequisite(s):

COMM 230 Minimum Grade: C- OR T

Total: 66 Credit Hours

Bachelor of Arts in Business Administration, General Business Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Bachelor of Arts in Business Administration, International Business Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

International Business Emphasis

BUS 335 - Consumer Behavior

3 Credit(s)

Study of consumer behavior as it relates to the marketing functions. Emphasis on the models of consumer behavior and their application to practical marketing problems.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 373 - Investment Analysis

3 Credit(s)

BUS 318 recommended. The course is a study of personal investment planning, traditional and alternative investment vehicles, investment media, investment strategy, and portfolio analysis. The student will become familiar with both money market and capital investment markets as well as strategies for assessing returns and risks of various security instruments.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T
AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

BUS 383 - International Financial Management

3 Credit(s)

A comprehensive study of international financial markets that covers currency exchange mechanisms in theory and practice. In line with the rapid globalization of the economy, the goal of this course is to analyze the international financial environment and how managers function in this increasingly uncertain global environment. The course will focus on three main areas of international finance: international financial environment, exchange rate behavior, and exchange risk management.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 441 - International Marketing

3 Credit(s)

Analysis of opportunities, distinctive characteristics, and emerging trends in foreign markets, including exploration of alternative methods and strategies for entering foreign markets; organizational planning and control; impact of social, cultural, economic, and political differences; and problems of adapting American marketing concepts and methods. This is accomplished through real life planning and implementation of an international marketing plan designed to market a product or service in a foreign country or countries

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 498 - World Food Distribution/Agricultural Economics

3 Credit(s)

Knowledge and application of economic concepts to the sectors of agriculture including microeconomic and macroeconomic relationships, world markets, and trade.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Plus 9 Credits from Political Science, History, or Languages (in Consultation with Your Advisor)

Bachelor of Arts in Business Administration, Public Relations Emphasis

Go to: Business

Public Relations Courses

SPCH 100 - Speech Fundamentals

3 Credit(s)

A course designed to develop proficiency in oral communication: interpersonal, group, and public discourse.

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

COMM 230 - Media Writing

3 Credit(s)

Students will survey the fundamental types of media writing, including inverted pyramid news writing, feature writing, blogging, and screenplays. News literacy will also be covered.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

COMM 293 - Media Practicum

3 Credit(s)

Students will work hands-on to learn various media industry-related skills. Students will deejay for Grizz Sound, and/or create podcasts, write for The Paw Print, and create a short video piece.

Prerequisite(s):

COMM 230 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 315 - Sales and Sales Management

3 Credit(s)

This course is designed to introduce students to management techniques as they relate specifically to the marketing and sales area. Topics covered include: the selling process, compensation systems, motivation and leadership, time and territory management, sales forecasting, quotas, and evaluating the sales force.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 345 - Advertising

3 Credit(s)

Discusses the history, purposes, and regulations of the advertising industry. Topics covered include creative principles, media advantages and disadvantages, media planning, regulation of advertising, and coordination with other promotion activities.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

COMM 355 - Public Relations and Strategic Communication

3 Credit(s)

Students will study the theoretical and practical elements of the field of public relations and the use of strategic communication. Student will then compose public relations materials applying the elements studied.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

COMM 425 - Media Research Methods

3 Credit(s)

Students will examine the prominent methods of media research, including quantitative and qualitative research, reliability and validity, specific methods used in the industry, the Nielsen ratings, and market trends.

Prerequisite(s):

ENG 102 Minimum Grade: C-

BUS 448 - Interactive/Social Media Marketing

3 Credit(s)

This course focuses on relationship marketing, interactive marketing, integration of consumer data, Internet marketing (E-commerce), media advertising, catalogs, mailing lists, telemarketing, and the use of direct marketing techniques to replace or enhance the traditional marketing methods of retail and direct sales.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 466 - Business Ethics Decision Making

3 Credit(s)

This course explores various ethical issues facing business leaders in modern society. Students will utilize current issues to analyze ethical dilemmas and decision-making processes common to modern organizations. Emphasizes critical thinking, critical reading, and the importance of professional ethics.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 467 - Creativity and Innovation

3 Credit(s)

Course objectives are to develop skills in generating new and original ideas, increase ability to convert ideas into action and success, and increase knowledge and skill in creative problem solving as applied to business scenarios.

Prerequisite(s):

BUS 361 Minimum Grade: C-

COMM 495 - Communication Capstone

3 Credit(s)

This course is designed to be the academic capstone experience for all students who are majoring in Communication & Media or Public Relations and to prepare students for a career in the media industry and/or for graduate studies in the field. Subject matter will vary depending upon the instructor's specialization or area of interest. All capstone students will conduct a major research project that reflects the student's mastery of library usage, research methodology, breadth of knowledge, critical thinking, and writing ability.

COMM 345 - Business of Radio and TV

3 Credit(s)

This course is designed for majors of Communication & Media, Media Industry & Communication, Public Relations, and other majors who are interested in careers in the radio and television industries. Students will study in-depth as to how the radio and television industries operate.

Plus 3 Credits from Business or Communication

COMM 280 - Visual Literacy

3 Credit(s)

This course will decode the messages behind visual communication by covering concepts of photography, television, film, digital imagery, social media, video games, etc. Students will interrogate visual meaning, and even create visual messages using standard industry practices.

Prerequisite(s):

ENG 102 Minimum Grade: C-

COMM 293 - Media Practicum

3 Credit(s)

Students will work hands-on to learn various media industry-related skills. Students will deejay for Grizz Sound, and/or create podcasts, write for The Paw Print, and create a short video piece.

Prerequisite(s):

COMM 230 Minimum Grade: C- OR T

BUS 381 - Business Internship

1 to 3 Credit(s)

Junior standing and approval of the department chair required. The internships are planned, meaningful work experiences that are academic in nature. Supervision consists of a site supervisor who is a qualified professional in the business or organization where the internship is arranged and a faculty sponsor who is a full-time professor in the School of Business, usually from the student's major. The site supervisor evaluates the work performed by the student on the job. The faculty sponsor is responsible for maintenance of academic quality and assigns the course grade. (30 contact hours=1 credit hour)

OR

BUS 481 - Business Internship II

1 to 3 Credit(s)

Senior standing and approval of the Department Chair required. The internships are planned, meaningful work experiences that are academic in nature. Supervision consists of a site supervisor who is a qualified professional in the business or organization where the internship is arranged and a faculty sponsor who is a full-time professor in the School of Business, usually from the student's major. The site supervisor evaluates the work performed by the student

on the job. The faculty sponsor is responsible for maintenance of academic quality and assigns the course grade (30 contact hours=1 credit hour).

COMM 430 - Diversity in Media

3 Credit(s)

Students will analyze how US media represents traditionally marginalized people in the United States. The course will be primarily discussion based, with students and instructor working together to generate ideas and critique dominant ideologies.

Prerequisite(s):

COMM 350 Minimum Grade: C- OR T

COMM 457 - First Amendment and Copyright

3 Credit(s)

This course explores the First Amendment of the U.S. Constitution and current U.S. copyright laws, and how they apply to and affect both media practitioners and U.S. citizens.

Prerequisite(s):

COMM 255 Minimum Grade: C- OR T

AND

COMM 275 Minimum Grade: C- OR T

COMM 496 - Communication Internship

1 to 3 Credit(s)

Advanced communication students will work in a pre-employment capacity in the field of communications/journalism (broadcasting, video, print, satellite, or computing), applying learned skills in a working environment.

Bachelor of Arts in Chemistry

Go to: Chemistry

Specific courses required for this degree:

Completion of the following required courses

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

CHEM 321 - Organic Chemistry

4 Credit(s)

A study of the relationship between structure and reactivity of carbon-containing compounds.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 321L

CHEM 321L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 321. Laboratory time will be divided among techniques, preparation, and mechanistic studies.

Co-requisite(s): CHEM 321

CHEM 322 - Organic Chemistry

4 Credit(s)

A continuation of CHEM 321.

Prerequisite(s):

CHEM 321 Minimum Grade: C- OR T

Co-requisite(s): CHEM 322L

CHEM 322L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-322. Laboratory time will be divided among mechanistic studies, preparation, introductory qualitative analysis, and independent project work.

Co-requisite(s): CHEM-322

CHEM 331 - Analytical Chemistry

3 Credit(s)

The theory and application of classical and instrumental quantitative analysis with additional emphasis on the fate and

analysis of chemicals in the environment.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T
AND

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): CHEM 331L

CHEM 331L - Analytical Chemistry Lab

2 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-331

Co-requisite(s): CHEM-331

CHEM 332 - Analytical Chemistry

3 Credit(s)

A continuation of CHEM 331 with additional coverage of chemical equilibria and electrochemistry.

Prerequisite(s):

CHEM 331 Minimum Grade: D OR T

Co-requisite(s): CHEM 332L

CHEM 332L - Analytical Chemistry Lab

2 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 332.

Co-requisite(s): CHEM 332

CHEM 431 - Physical Chemistry Lecture/Thermodynamics

3 Credit(s)

Thermodynamics as applied to chemistry and physics. Specific topics include the laws of thermodynamics, thermochemistry, reaction and phase equilibrium, solutions, and electrochemistry. An introduction to chemical kinetics is included.

Prerequisite(s):

CHEM-132 Minimum Grade: C- OR T
AND

MATH-121 Minimum Grade: C- OR T

AND

PHYS-225 Minimum Grade: C- OR T

AND

PHYS-226 Minimum Grade: C- OR T

OR

PHYS-230 Minimum Grade: D OR T

AND

PHYS-231 Minimum Grade: D OR T

AND

PHYS-232 Minimum Grade: D OR T

AND

PHYS-233 Minimum Grade: D OR T

Co-requisite(s): CHEM 433

CHEM 432 - Physical Chemistry Lecture/Quantum Mechanics

3 Credit(s)

Quantum mechanics with applications to atomic structure, bonding, solid state, and spectroscopy. An introduction to kinetic molecular theory of gas, transport properties, and statistical mechanics is included.

Prerequisite(s):

CHEM-132 Minimum Grade: C- OR T
AND

MATH-121 Minimum Grade: C- OR T

AND

PHYS-225 Minimum Grade: C- OR T

AND

PHYS-226 Minimum Grade: C- OR T

OR

PHYS-230 Minimum Grade: D OR T

AND

PHYS-231 Minimum Grade: D OR T

AND

PHYS-232 Minimum Grade: D OR T

AND

PHYS-233 Minimum Grade: D OR T

CHEM 433 - Physical Chemistry Laboratory

2 Credit(s)

The principles of physical chemistry applied in the laboratory.

Prerequisite(s):

CHEM 431 Minimum Grade: D OR T

Co-requisite(s): CHEM 431

CHEM 434 - Physical Chemistry Laboratory

2 Credit(s)

The principles of physical chemistry applied in the laboratory. CHEM-434 includes an independent project.

Prerequisite(s):

CHEM 431 Minimum Grade: D OR T

Co-requisite(s): CHEM 432

CHEM 471 - Chemistry Seminar

1 Credit(s)

Capstone course intended for senior chemistry majors consisting of seminars presented by guest speakers, staff, and students; an assessment exam for seniors; and job placement information. Prerequisite: Completion of sufficient degree requirements to be within three semesters of graduating with a chemistry major.

CHEM 472 - Chemistry Seminar Continuation

1 Credit(s)

A continuation of CHEM 471.

Prerequisite(s):

CHEM 471 Minimum Grade: C- OR T

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1**5 Credit(s)**

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

The following physics sequence

PHYS 225 - College Physics I GT-SC1**5 Credit(s)**

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 226 - College Physics II

5 Credit(s)

The second course of a two-semester lecture-laboratory sequence introducing the fundamental principles of physics. In the second semester, students will be introduced to the areas of electricity, electric circuits, optics, and topics in modern physics. Conceptual understanding as well as problem-solving techniques will be emphasized in the lecture. The laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture.

Prerequisite(s):

PHYS 225 Minimum Grade: C- OR T

OR

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T

AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

The following course combination is recommended

CHEM 334 - Environmental Chemistry

3 Credit(s)

This course is designed to introduce the student to a series of topics including stratospheric chemistry, air pollution, global warming, climate change, renewable energy, pesticides, water pollution, and heavy metal pollution.

Prerequisite(s):

CHEM 331 Minimum Grade: C- OR T

Co-requisite(s): CHEM 334L

CHEM 334L - Environmental Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 334.

Co-requisite(s): CHEM 334

Bachelor of Arts in Chemistry, Allied Health Professions Emphasis

Go to: Chemistry

This degree is not appropriate for those planning a career in chemistry but is intended for students entering professional school in the health professions.

Specific courses required for this degree:

Completion of the Following Required Courses

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

CHEM 321 - Organic Chemistry

4 Credit(s)

A study of the relationship between structure and reactivity of carbon-containing compounds.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 321L

CHEM 321L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 321. Laboratory time will be divided among techniques, preparation, and mechanistic studies.

Co-requisite(s): CHEM 321

CHEM 322 - Organic Chemistry

4 Credit(s)

A continuation of CHEM 321.

Prerequisite(s):

CHEM 321 Minimum Grade: C- OR T

Co-requisite(s): CHEM 322L

CHEM 322L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-322. Laboratory time will be divided among mechanistic studies, preparation, introductory qualitative analysis, and independent project work.

Co-requisite(s): CHEM-322

CHEM 331 - Analytical Chemistry

3 Credit(s)

The theory and application of classical and instrumental quantitative analysis with additional emphasis on the fate and analysis of chemicals in the environment.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T
AND

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): CHEM 331L

CHEM 331L - Analytical Chemistry Lab

2 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-331

Co-requisite(s): CHEM-331

CHEM 332 - Analytical Chemistry

3 Credit(s)

A continuation of CHEM 331 with additional coverage of chemical equilibria and electrochemistry.

Prerequisite(s):

CHEM 331 Minimum Grade: D OR T

Co-requisite(s): CHEM 332L

CHEM 332L - Analytical Chemistry Lab

2 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 332.

Co-requisite(s): CHEM 332

CHEM 401 - Biochemistry

3 Credit(s)

A study of structural biochemistry. Course begins with a review of water, the lipophilic environment, noncovalent bonding, and bioenergetics. Topics include amino acids, peptides, proteins, nucleic acids, carbohydrates, and lipids. Enzymes are discussed with emphasis on mechanism and kinetics.

Prerequisite(s):

CHEM 322 Minimum Grade: C- OR T

Co-requisite(s): CHEM 401L

CHEM 401L - Biochemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-401. Laboratory time will be spent learning protein purification techniques and doing independent project work.

Co-requisite(s): CHEM-401

CHEM 402 - Biochemistry II

3 Credit(s)

A study of biochemical metabolism. Topics include catabolism, anabolism, and metabolic control. Three hours of lecture per week.

Prerequisite(s):

CHEM 401 Minimum Grade: C- OR T

CHEM 471 - Chemistry Seminar

1 Credit(s)

Capstone course intended for senior chemistry majors consisting of seminars presented by guest speakers, staff, and students; an assessment exam for seniors; and job placement information. Prerequisite: Completion of sufficient degree requirements to be within three semesters of graduating with a chemistry major.

CHEM 472 - Chemistry Seminar Continuation

1 Credit(s)

A continuation of CHEM 471.

Prerequisite(s):

CHEM 471 Minimum Grade: C- OR T

Either of the Following Mathematics Sequences

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T
OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T
OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

OR

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

The Following Physics Sequence

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-

OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 226 - College Physics II

5 Credit(s)

The second course of a two-semester lecture-laboratory sequence introducing the fundamental principles of physics. In the second semester, students will be introduced to the areas of electricity, electric circuits, optics, and topics in modern physics. Conceptual understanding as well as problem-solving techniques will be emphasized in the lecture. The laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture.

Prerequisite(s):

PHYS 225 Minimum Grade: C- OR T

OR

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1**1 Credit(s)**

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

Note

A minor in biology is required.

**Bachelor of Arts in Chemistry, Science Education Emphasis
with Secondary Teacher Licensure**

Go to: Bachelor of Arts, Secondary Education Licensure

Go to: Chemistry

The secondary teacher licensure program qualifies a student for a Colorado standard teaching license in science education.

1. Complete the Following Required Courses**BIOL 101 - Introductory Biology GT-SC1****4 Credit(s)**

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups,

and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

CHEM 321 - Organic Chemistry

4 Credit(s)

A study of the relationship between structure and reactivity of carbon-containing compounds.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 321L

CHEM 321L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 321. Laboratory time will be divided among techniques, preparation, and mechanistic studies.

Co-requisite(s): CHEM 321

CHEM 322 - Organic Chemistry

4 Credit(s)

A continuation of CHEM 321.

Prerequisite(s):

CHEM 321 Minimum Grade: C- OR T

Co-requisite(s): CHEM 322L

CHEM 322L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-322. Laboratory time will be divided among mechanistic studies, preparation, introductory qualitative analysis, and independent project work.

Co-requisite(s): CHEM-322

CHEM 331 - Analytical Chemistry

3 Credit(s)

The theory and application of classical and instrumental quantitative analysis with additional emphasis on the fate and analysis of chemicals in the environment.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

AND

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): CHEM 331L

CHEM 331L - Analytical Chemistry Lab

2 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-331

Co-requisite(s): CHEM-331

CHEM 334 - Environmental Chemistry

3 Credit(s)

This course is designed to introduce the student to a series of topics including stratospheric chemistry, air pollution, global warming, climate change, renewable energy, pesticides, water pollution, and heavy metal pollution.

Prerequisite(s):

CHEM 331 Minimum Grade: C- OR T

Co-requisite(s): CHEM 334L

CHEM 334L - Environmental Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 334.

Co-requisite(s): CHEM 334

CHEM 471 - Chemistry Seminar

1 Credit(s)

Capstone course intended for senior chemistry majors consisting of seminars presented by guest speakers, staff, and students; an assessment exam for seniors; and job placement information. Prerequisite: Completion of sufficient degree requirements to be within three semesters of graduating with a chemistry major.

CHEM 472 - Chemistry Seminar Continuation

1 Credit(s)

A continuation of CHEM 471.

Prerequisite(s):

CHEM 471 Minimum Grade: C- OR T

Complete either physics sequence (each one is a year in length)

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 226 - College Physics II

5 Credit(s)

The second course of a two-semester lecture-laboratory sequence introducing the fundamental principles of physics. In the second semester, students will be introduced to the areas of electricity, electric circuits, optics, and topics in modern physics. Conceptual understanding as well as problem-solving techniques will be emphasized in the lecture. The laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture.

Prerequisite(s):

PHYS 225 Minimum Grade: C- OR T
OR

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

The following courses are highly recommended

CHEM 332 - Analytical Chemistry

3 Credit(s)

A continuation of CHEM 331 with additional coverage of chemical equilibria and electrochemistry.

Prerequisite(s):

CHEM 331 Minimum Grade: D OR T

Co-requisite(s): CHEM 332L

CHEM 332L - Analytical Chemistry Lab

2 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 332.

Co-requisite(s): CHEM 332

CHEM 461 - Inorganic Chemistry

3 Credit(s)

Theoretical aspects of inorganic chemistry based upon periodic relationships, symmetry, structure bonding, and reactivities. Offered fall semesters of odd-numbered years.

Prerequisite(s):

CHEM-321 Minimum Grade: C- OR T
AND

CHEM-322 Minimum Grade: C- OR T

OR

CHEM-331 Minimum Grade: C- OR T

AND

CHEM-332 Minimum Grade: C- OR T

Co-requisite(s): CHEM-461L

CHEM 461L - Inorganic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-461. Practices of inorganic chemistry in the laboratory including synthesis and characterization of compounds.

Co-requisite(s): CHEM-461

CHEM 431 - Physical Chemistry Lecture/Thermodynamics

3 Credit(s)

Thermodynamics as applied to chemistry and physics. Specific topics include the laws of thermodynamics, thermochemistry, reaction and phase equilibrium, solutions, and electrochemistry. An introduction to chemical kinetics is included.

Prerequisite(s):

CHEM-132 Minimum Grade: C- OR T
AND

MATH-121 Minimum Grade: C- OR T

AND

PHYS-225 Minimum Grade: C- OR T

AND

PHYS-226 Minimum Grade: C- OR T

OR

PHYS-230 Minimum Grade: D OR T

AND

PHYS-231 Minimum Grade: D OR T

AND

PHYS-232 Minimum Grade: D OR T

AND

PHYS-233 Minimum Grade: D OR T

Co-requisite(s): CHEM 433

2. Complete the secondary teacher licensure requirements

Bachelor of Arts, Secondary Education Licensure

Bachelor of Arts in Communication and Media Studies

Go to: Languages, Literature, and Media Communication

The Communication and Media Studies major encourages you to apply reading, writing and critical thinking skills within a multimedia environment. Through coursework, student media groups, and hands-on projects, you'll examine and appraise different media, including written, studio, and video materials. You'll have access to broadcasting equipment and video-editing software and equipment, as well as opportunities to work for the The Paw Print student newspaper, student streaming radio and more.

Upon graduation, you'll demonstrate competence in a variety of media forms and techniques. The skills and knowledge you gain at Adams State will prepare you for many career paths, broadcasting, video production, social media, graduate school, and a variety of other communication-oriented careers.

Specific Courses Required for This Degree

SPCH 100 - Speech Fundamentals

3 Credit(s)

A course designed to develop proficiency in oral communication: interpersonal, group, and public discourse.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

COMM 230 - Media Writing

3 Credit(s)

Students will survey the fundamental types of media writing, including inverted pyramid news writing, feature writing, blogging, and screenplays. News literacy will also be covered.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

COMM 280 - Visual Literacy

3 Credit(s)

This course will decode the messages behind visual communication by covering concepts of photography, television, film, digital imagery, social media, video games, etc. Students will interrogate visual meaning, and even create visual messages using standard industry practices.

Prerequisite(s):

ENG 102 Minimum Grade: C-

COMM 293 - Media Practicum

3 Credit(s)

Students will work hands-on to learn various media industry-related skills. Students will deejay for Grizz Sound, and/or create podcasts, write for The Paw Print, and create a short video piece.

Prerequisite(s):

COMM 230 Minimum Grade: C- OR T

COMM 345 - Business of Radio and TV

3 Credit(s)

This course is designed for majors of Communication & Media, Media Industry & Communication, Public Relations,

and other majors who are interested in careers in the radio and television industries. Students will study in-depth as to how the radio and television industries operate.

COMM 350 - Media Theory and Criticism

3 Credit(s)

Students will explore various theories that explain the nature of mass communication, the impact that media have on society, and the trends in media consumption. Particular emphasis will be placed on propaganda, violence in media, information processing, media monopolies, and critical media consumption. Students will be expected to track current media and debate contemporary media controversies in class.

Prerequisite(s):

COMM 255 Minimum Grade: C- OR T

COMM 355 - Public Relations and Strategic Communication

3 Credit(s)

Students will study the theoretical and practical elements of the field of public relations and the use of strategic communication. Student will then compose public relations materials applying the elements studied.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

COMM 425 - Media Research Methods

3 Credit(s)

Students will examine the prominent methods of media research, including quantitative and qualitative research, reliability and validity, specific methods used in the industry, the Nielsen ratings, and market trends.

Prerequisite(s):

ENG 102 Minimum Grade: C-

COMM 430 - Diversity in Media

3 Credit(s)

Students will analyze how US media represents traditionally marginalized people in the United States. The course will be primarily discussion based, with students and instructor working together to generate ideas and critique dominant ideologies.

Prerequisite(s):

COMM 350 Minimum Grade: C- OR T

COMM 457 - First Amendment and Copyright

3 Credit(s)

This course explores the First Amendment of the U.S. Constitution and current U.S. copyright laws, and how they

apply to and affect both media practitioners and U.S. citizens.

Prerequisite(s):

COMM 255 Minimum Grade: C- OR T
AND

COMM 275 Minimum Grade: C- OR T

BUS 448 - Interactive/Social Media Marketing

3 Credit(s)

This course focuses on relationship marketing, interactive marketing, integration of consumer data, Internet marketing (E-commerce), media advertising, catalogs, mailing lists, telemarketing, and the use of direct marketing techniques to replace or enhance the traditional marketing methods of retail and direct sales.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

COMM 495 - Communication Capstone

3 Credit(s)

This course is designed to be the academic capstone experience for all students who are majoring in Communication & Media or Public Relations and to prepare students for a career in the media industry and/or for graduate studies in the field. Subject matter will vary depending upon the instructor's specialization or area of interest. All capstone students will conduct a major research project that reflects the student's mastery of library usage, research methodology, breadth of knowledge, critical thinking, and writing ability.

Choose Two of the Following (6 Credit Hours)

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 310 - Photoshop

3 Credit(s)

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 345 - Advertising

3 Credit(s)

Discusses the history, purposes, and regulations of the advertising industry. Topics covered include creative principles, media advantages and disadvantages, media planning, regulation of advertising, and coordination with other promotion activities.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 385 - Sports Marketing

3 Credit(s)

Illustrates the dynamic, progressive and influential nature of sports marketing. Explores the sport marketing concept as a consumer-driven, integrated, goal-oriented philosophy for a team, event, organization or athlete. Topics covered include: athletic endorsements, team sports, event sponsorships and alternative sports.

BUS 468 - New Business Venturing

3 Credit(s)

This course introduces students to starting and operating a business. Students will be exposed to how business interacts with government, financial institutions, and society. This course will examine and study the process, challenges, risks, and rewards of starting up a new business. The student will be equipped with tools required to start their own business.

Prerequisite(s):

BUS 365 Minimum Grade: C-

COMM 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student interests in the field.

COMM 496 - Communication Internship

1 to 3 Credit(s)

Advanced communication students will work in a pre-employment capacity in the field of communications/journalism (broadcasting, video, print, satellite, or computing), applying learned skills in a working environment.

Note

*May require prerequisite

A minor in an area of specialization is recommended.

Bachelor of Arts in Elementary Education

Go to: Educational Preparation

Students preparing to be elementary teachers will complete an undergraduate Bachelor of Arts degree in Elementary Education with coursework and field experience in literacy and language, content methods, and education practices within their chosen major.

Choose Your Emphasis and Complete Those Requirements

Select an approved content area emphasis with your advisor:

- Bachelor of Arts in Elementary Education Licensure, Art Emphasis
- Bachelor of Arts in Elementary Education Licensure, Chemistry Minor
- Bachelor of Arts in Elementary Education Licensure, Culturally and Linguistically Diverse Education (CLD) Emphasis
- Bachelor of Arts in Elementary Education Licensure, Literacy Emphasis
- Bachelor of Arts in Elementary Education Licensure, Mathematics Emphasis
- Bachelor of Arts in Elementary Education Licensure, Music Emphasis
- Bachelor of Arts in Elementary Education Licensure, Science Emphasis
- Bachelor of Arts in Elementary Education Licensure, Social Studies Emphasis
- Bachelor of Arts in Elementary Education Licensure, Spanish Emphasis

Complete the Licensure Requirements

ED 200 - Perspectives of Teaching and Learning

3 Credit(s)

A study of school, societal and cultural issues and their influences on teaching and learning. As an introductory course, the purpose is to learn about teaching as a career choice, the historical development of American education, social and political structures in the schools, and power groups influencing educational policy. Issues of educational reform will include civil rights, students' rights, ethnic, gender and racial issues, individualizing instructions, special education, learning theory models, (inclusive of diversity issues related to electronic media) and alternative school structures. Emphasis is placed on the orientation and development of a proficient and reflective professional educator. A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

PSYC 204 - Child Development

3 Credit(s)

The goal of this course is to examine the interaction of heredity and environment on human development from conception through pre-adolescence. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Some topics include the birth process, early cognitive and language development, gender socialization, the impact of parenting styles, and moral reasoning.

Prerequisite(s):

PSYC 101 Minimum Grade: C or T

ED 220 - The Exceptional Learner

3 Credit(s)

This course is designed to survey the foundations of special education, including historical, philosophical perspectives, legal issues and current trends in instruction and programming. Students will explore the role of general education as it relates to the education of the student with exceptional needs. Emphasis will be placed on developing knowledge of various disabling conditions, available resources and educational alternatives. Students will learn about the ethical and sociopolitical influences on prevention, intervention and educational programs for students with special needs, from birth through post-secondary ages. Learning characteristics and the diverse needs of students who receive special education services will also be studied. From a pedagogically sound, as well as developmentally appropriate perspective, the similarities and differences within and between exceptionalities and typical development will be emphasized. A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office PRIOR to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

ED 230 - Science of Reading

3 Credit(s)

This foundational course in reading explores literacy development and the structure of language by a) defining the relationship between cognitive and linguistic development, b) assessing literacy development, c) nurturing the development of emergent literacy, and d) investigating and planning instruction for the five components of reading which include phonemic awareness, phonics, fluency, vocabulary, and comprehension.

NOTE:

- A 20-hour, pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field-experience. Photo IDs must be obtained PRIOR to the beginning of the field-experience component.
- Field-experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

ED 300 - The Reading and Writing Connection

3 Credit(s)

This course delves into the art of effective teaching methods in the realms of reading and writing, highlighting the intricate link between these subjects. Furthermore, it addresses the reality that some students encounter difficulties in these areas. The course equips learners with the skills to employ a diverse range of assessments, encompassing both formal and informal approaches, to gauge a student's strengths and areas needing improvement. It will also elucidate the significance of employing various assessment methods and their impact on enhancing instruction and elevating student achievement. This course will involve lecture, discussion, videos in a hybrid, online, or face-to-face model along with practice in the classroom. Students will complete associated hours of supervised field-based experiences to observe and interact directly in educational environments. Field service hours are required for licensure.

Documentation of verified hours will be collected as part of the undergraduate course. Students will be responsible for their own transportation to the field sites.

Note:

- A 20-hour, pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field-experience. Photo IDs must be obtained PRIOR to the beginning of the field-experience component.
- Field-experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to Ed Prep Program and Clear Fingerprint background check

ED 345 - Educational Psychology

3 Credit(s)

Designed to explore the background of educational psychology. Major topic areas include: research, value and utilization, student characteristics and diversity, learning theories and their application, motivation, teaching methods and practices, evaluating student learning, and standardized measurements. Students will develop increased ability to

understand and assess the interrelationships of intellectual, cognitive, instructional, personality, social and cultural influences, theories, and factors as they affect the learning environments. Students will cover assessment procedures, analysis of data, legal and ethical responsibilities as part of necessary research and evaluation within the school learning environment. Emphasis is placed on developing knowledge of historical and current research and its meaning for interaction and planning in the school setting.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

ED 347 - Teaching, Learning, and Technology

3 Credit(s)

This course is an introduction to the theories and applications of appropriate and effective uses of technology to achieve pedagogical goals. Content includes exploring emerging technologies, designing lessons aligned to the Colorado Essential Skills, integrating digital tools to strengthen teaching and improve student learning, identifying guidelines for designing and implementing online learning environments, comparing various theories of teaching and learning related to the design of virtual lessons/online programs, and describing effective instructional strategies for online learning. Using technology in K-12 classrooms is relevant to prepare students for success in post-secondary and workforce settings.

Prerequisite(s):

Clear Fingerprint background check

Choose One Course (3 Credits)

CLD 401 - Introduction to the Study of Language

3 Credit(s)

This course provides prospective teachers with an overview of the study of language and how it works. It is an introduction to the scientific study of language and linguistics. The course provides for examination of relevant theories of language and how language is acquired as well as cognitive, societal and cultural considerations affecting its use. Specific topics to be examined include: the structure of languages, grammatical constructs (e.g., morphology, syntax, semantics, phonetics, phonology, and discourse), the interactions between language use and social structures, and the representation of language in the brain. Instructional applications will be considered. The course presupposes no formal study or knowledge of language/ linguistics.

Prerequisite(s):

Clear Fingerprint background check

CLD 402 - Language and Culture

3 Credit(s)

This course explores the peculiar relationship between language and the cultural total of which the language is a part, including the connection between cultural identity and heritage language. It examines language variations within a community according to gender, age, geography, ethnicity, socioeconomic class and level of education. Specifically, the course deals with the linguistic factors characterizing differences in language and with the social and social-psychological variables associated with these differences. Attention is given to the different varieties of language within a speech community (e.g., dialect, register, and style) and the societal and cultural factors that define their use. Course content considers the educational, political and economic implications. The course presupposes no formal study

or knowledge of language/ linguistics. Accordingly, the course focuses on the different ways people speak. It deals with the linguistic factors characterizing differences in language and with the social and social-psychological variables associated with these differences. Thus, having completed the course, students should (a) be aware of the different linguistic choices available to speakers in different social/ cultural contexts, (b) have an understanding of the factors which influence the choosing of one variety over another and the societal implications of such choices, (c) gain an appreciation for language diversity and cultural pluralism and, for those in teacher education programs, and, for education majors, (d) be able to demonstrate ability to identify and adapt instructional applications that are responsive to learners from different cultural backgrounds.

Prerequisite(s):

Clear Fingerprint background check

CLD 403 - Second Language Acquisition

3 Credit(s)

Introduction to second language acquisition (SLA) theory and the application of SLA theory to second/foreign language teaching practices. Explores what it means to know a language and, hence, how one learns/ acquires a second language. The emphasis in the course is to provide an opportunity to become familiar with up-to-date major theories of language acquisition (e.g., linguistic, psychological, sociological, etc.). That is, what happens in the mind of L1 learners and expand to 2L learners. This is not a methodology course, though certain methods and approaches will be discussed as they are direct applications of 2L theories. Instead, students will be exposed to what research data show about the complex process of learning a second language, and to teach them how to rely on these data to understand a number of major models (theories) of 2LL and, as a result, be able to use this knowledge to evaluate different methods, materials and assessments for 2LL/CLD populations. The course presupposes no formal study or knowledge of language/ linguistics. As part of the course content, we will seek to foster cultural sensitivity to the diverse student population becoming increasingly prevalent in classrooms in the U.S. We will also be concerned with providing the basic skills needed to satisfactorily assess the suitability of diverse 2LL methodologies & programs to meet the needs of limited English proficiency (LEP) students. An underlying assumption of the course is that learning is a social process that takes place within the broader social milieu of the learner's speech community. Accordingly, 2L learners bring into the classroom diverse language and cultural backgrounds, as well as a unique set of competencies, skills, sensitivities, goals, and needs. In order to provide for a successful learning environment, teachers must be able to identify and relate to the diversity inherent in today's student population and be able to take affirmative steps towards addressing the needs of the students in their classrooms. Course content and activities will assist participants in developing a greater appreciation of democracy and diversity in the classroom as we prepare for a global society as reflected in current theories of 2L acquisition.

Prerequisite(s):

Clear Fingerprint background check

CLD 479 - Special Topics

0.5 to 6 Credit(s)

Offered periodically to meet the needs of students.

Prerequisite(s):

Clear Fingerprint background check

Complete the Academic Core

Courses completed to meet any other degree or the Undergraduate General Education Requirements cannot be used to fulfill this requirement

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

GSCI 300 - World Geography

3 Credit(s)

The course examines human or cultural geography with a global perspective. It uses a topic centered approach. It is intended to give the student an appreciation of the interaction between physical geography, environment, and cultural practices.

ED 240 - Math for Elementary Teachers

3 Credit(s)

This course is designed for prospective elementary teachers. Emphasizes the real number system, arithmetic operations, algebra, probability, data analysis, geometry, and measurement. Explorations focus on representing, analyzing, generalizing, formalizing, and communicating patterns and probabilities. Representations of data, two- and three-dimensional shapes, their properties, measurements, and transformations will also be explored. Content presented using problem solving, exploration, and integration with other discipline areas.

Prerequisite(s):

Clear Fingerprint background check

ED 250 - Science for Elementary Teachers

3 Credit(s)

This course will support students developing a better understanding of elementary science concepts and processes. It will focus on the Crosscutting Concepts to help students explore connections across the four domains of science. The class will focus on the disciplinary core Ideas, which are the key ideas in science that have broad importance within or across multiple science or engineering disciplines. The discipline core ideas are grouped into the following four domains: Physical Science, Life Science, Earth and Space Science, and Engineering. Content will be presented using inquiry science and project-based instruction.

Prerequisite(s):

Clear Fingerprint background check

Pass PRAXIS II

Complete the Senior Block (EPP Admission Required)

Courses must be taken concurrently

ED 310 - STEM Methods

3 Credit(s)

This course provides a background on high leverage practices such as: explaining and modeling content, eliciting and interpreting, and diagnosing patterns of student thinking for STEM. The course will also include close examination of the P-6 Colorado Science and Mathematics Content Standards. This background prepares students to develop and implement STEM learning experiences for students at the elementary grade level. Emphasis is on the integration of STEM into the broader curriculum, especially literacy, and to instruction strategies that support success for all students, including linguistically and culturally diverse learners. Topics cover interpreting student work, checking student understanding, designing units, being precise with language in STEM content, and how to use inquiry.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

Co-requisite(s): ED 434L

ED 414 - Inclusive and Safe Classroom Management

3 Credit(s)

This course explores the foundational principles of effective classroom instruction, behavior evaluation, and management techniques while promoting a safe and healthy school environment. This course equips candidates with critical thinking skills to design and implement successful classroom management strategies, emphasizing student achievement through effective time management, communication, and record-keeping procedures. Candidates will also develop comprehensive management plans. Candidates will examine school law and professional ethics for educators. They will gain insights into the legal and ethical frameworks that guide their roles as educators, ensuring they are well-prepared to uphold the highest standards of professionalism and integrity. The content of this course addresses health and wellness topics, including conflict resolution, mediation, nutrition, emergency protocols, and first aid within the educational setting. Candidates will design and implement SEL curricula, considering diverse student needs and crisis prevention and intervention strategies. This course is essential for educators to create a safe, healthy, and inclusive learning environment.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to the Educator Preparation Program; Clear Fingerprint background check

Co-requisite(s): ED 434L

ED 426 - Pedagogical Strategies for Cultural Competence

3 Credit(s)

This is a dynamic and transformative course designed to equip future educators with the essential knowledge and skills to foster cultural competence in the classroom. Students will engage in learning that enhances their ability to use data to better understand and respond to diversity in their respective schools and communities. They will critically examine the impact of cultural values and bias on school curriculum and teacher practice, while applying strategies aimed at creating more culturally responsive experiences for diverse children. Students will also deepen their understanding and practice in working with vulnerable students and families, including those facing abuse, trauma, generational poverty and other forms of crisis.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

Co-requisite(s): ED 434L

ED 434L - Field Experience Lab

3 Credit(s)

Senior Block component. Labs scheduled one day per week, eight hours per day. Students complete field hours as arranged by the Teacher Education office. Reflections and proficiencies demonstrated during this experience meet requirements for evidences related to concurrent (senior block) courses. Supervision is provided by senior block course instructors. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

Student Teaching

ED 435 - Student Teaching - Elementary

1 to 15 Credit(s)

This field experience serves as a culmination of the teacher licensure program and provides student teachers with a comprehensive experience in a public school setting. Students must complete all components outlined in the Student Teaching Handbook. A team of faculty supervisors and mentors will help the student teacher acquire the necessary skills in the practice of building a community of learners while teaching and learning. The community of learners includes the student teacher, the cooperating mentor teacher, the university field supervisor, the building principal, and the classroom students. This student teaching experience requires a minimum of 640 hours of contact time.

Prerequisite(s):

Admission to Ed Prep Program; Permission to Student Teach; Clear Fingerprint background check

Bachelor of Arts in Elementary Education Licensure, Art Emphasis

Go to: Bachelor of Arts in Elementary Education

Go to: Art

Complete Required Art Courses for Art Emphasis

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

AR 334 - Elementary School Art Education Methods

3 Credit(s)

A course designed to explore the theoretical and practical approaches to implementing a program of art education for grades K-6. Emphasis is placed on strategies that will encourage a discipline-based art education model of instruction. Through hands-on involvement in various art media, students are given opportunities for creative problem solving. A background check must be completed through the Department of Teacher Education. This course has a course specific

fee to cover the costs of some materials. A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Teacher Education Background Check Passed
AND

AR 216 Minimum Grade: C OR T

AND

ED 200 Minimum Grade: C OR T

OR

ED 220 Minimum Grade: C OR T

AR 364 - History of Art I

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms prehistoric times to the Eighteenth Century.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T
OR

AR 365 - History of Art II

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms from the 18th Century to the 21st Century. Additionally this course includes a brief survey of the arts of African, Asian, and Native American cultures.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T
OR

AR 367 - Women Artists in Art History

3 Credit(s)

A survey of women artists in the history of art from antiquity to the present.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

Plus Additional Elementary Education Licensure Requirements from the School of Education

Bachelor of Arts in Elementary Education

Bachelor of Arts in Elementary Education Licensure, Chemistry Minor

Go to: Bachelor of Arts in Elementary Education

Go to: Chemistry

Eighteen hours selected in consultation with the coordinator of the program. Either CHEM 111 or CHEM 131 may be selected but not both courses.

Plus Additional Elementary Education Licensure Requirements from the School of Education

Bachelor of Arts in Elementary Education

Bachelor of Arts in Elementary Education Licensure, Culturally and Linguistically Diverse Education (CLD) Emphasis

Go to: Bachelor of Arts in Elementary Education

Required CLD Courses

CLD 401 - Introduction to the Study of Language

3 Credit(s)

This course provides prospective teachers with an overview of the study of language and how it works. It is an introduction to the scientific study of language and linguistics. The course provides for examination of relevant theories of language and how language is acquired as well as cognitive, societal and cultural considerations affecting its use. Specific topics to be examined include: the structure of languages, grammatical constructs (e.g., morphology, syntax, semantics, phonetics, phonology, and discourse), the interactions between language use and social structures, and the representation of language in the brain. Instructional applications will be considered. The course presupposes no formal study or knowledge of language/ linguistics.

Prerequisite(s):

Clear Fingerprint background check

CLD 402 - Language and Culture

3 Credit(s)

This course explores the peculiar relationship between language and the cultural total of which the language is a part, including the connection between cultural identity and heritage language. It examines language variations within a community according to gender, age, geography, ethnicity, socioeconomic class and level of education. Specifically,

the course deals with the linguistic factors characterizing differences in language and with the social and social-psychological variables associated with these differences. Attention is given to the different varieties of language within a speech community (e.g., dialect, register, and style) and the societal and cultural factors that define their use. Course content considers the educational, political and economic implications. The course presupposes no formal study or knowledge of language/ linguistics. Accordingly, the course focuses on the different ways people speak. It deals with the linguistic factors characterizing differences in language and with the social and social-psychological variables associated with these differences. Thus, having completed the course, students should (a) be aware of the different linguistic choices available to speakers in different social/ cultural contexts, (b) have an understanding of the factors which influence the choosing of one variety over another and the societal implications of such choices, (c) gain an appreciation for language diversity and cultural pluralism and, for those in teacher education programs, and, for education majors, (d) be able to demonstrate ability to identify and adapt instructional applications that are responsive to learners from different cultural backgrounds.

Prerequisite(s):

Clear Fingerprint background check

CLD 403 - Second Language Acquisition

3 Credit(s)

Introduction to second language acquisition (SLA) theory and the application of SLA theory to second/foreign language teaching practices. Explores what it means to know a language and, hence, how one learns/ acquires a second language. The emphasis in the course is to provide an opportunity to become familiar with up-to-date major theories of language acquisition (e.g., linguistic, psychological, sociological, etc.). That is, what happens in the mind of L1 learners and expand to 2L learners. This is not a methodology course, though certain methods and approaches will be discussed as they are direct applications of 2L theories. Instead, students will be exposed to what research data show about the complex process of learning a second language, and to teach them how to rely on these data to understand a number of major models (theories) of 2LL and, as a result, be able to use this knowledge to evaluate different methods, materials and assessments for 2LL/CLD populations. The course presupposes no formal study or knowledge of language/ linguistics. As part of the course content, we will seek to foster cultural sensitivity to the diverse student population becoming increasingly prevalent in classrooms in the U.S. We will also be concerned with providing the basic skills needed to satisfactorily assess the suitability of diverse 2LL methodologies & programs to meet the needs of limited English proficiency (LEP) students. An underlying assumption of the course is that learning is a social process that takes place within the broader social milieu of the learner's speech community. Accordingly, 2L learners bring into the classroom diverse language and cultural backgrounds, as well as a unique set of competencies, skills, sensitivities, goals, and needs. In order to provide for a successful learning environment, teachers must be able to identify and relate to the diversity inherent in today's student population and be able to take affirmative steps towards addressing the needs of the students in their classrooms. Course content and activities will assist participants in developing a greater appreciation of democracy and diversity in the classroom as we prepare for a global society as reflected in current theories of 2L acquisition.

Prerequisite(s):

Clear Fingerprint background check

Select 3 Elective Courses

CLD 404 - TESOL Methods

3 Credit(s)

This course introduces students to the study, philosophy, aims and methods of teaching English as a second (or foreign language) with an emphasis upon the techniques and materials in current use. It aims at providing for examination of

current theory and empirical data on language learning, as well as for scrutinizing pertinent pedagogical implications/applications for the TESOL K-12/ CLD classroom intended to address the language needs of non-native speakers of English. In addition, the course reviews research-based instructional methodologies applicable to teaching language through the content areas. The course considers the large storehouse of information; currently available on how to successfully tap into this knowledge in order to develop and implement sound methodological approaches which will assist SL/ CLD learners in becoming proficient in the target language and successful in the academic content areas. Content addresses teachers' need to rely on effective instructional approaches and strategies that promote a climate that is conducive to opportunities for active involvement in learning about language, academic content, about classmates, and about the whole world. The course examines a synthesis of current 2L theory that should serve as the basis for development, selection, and modification of suitable materials and methods that will predictably be conducive to successful learning in both the language and content area classroom.

Prerequisite(s):

Clear Fingerprint background check

CLD 405 - TESOL Reading

3 Credit(s)

This course introduces students interested in questions of language acquisition to the theories and practices relating to learning to read in a second language or second dialect. Topics included are models for acquiring foreign language reading skills, teaching strategies for second language/dialect literacy, evaluating literacy skills, current research about acquisition of literacy skills, and political and social implications of second language/dialect literacy. The content addresses specifics about teaching reading for ELL/ CLD populations in classrooms. Opportunity is provided for candidates to become familiar with resources and data on school populations. The main goal of this course is to assist practicing or prospective teachers to learn how to promote development or crucial reading skills among ELL students. The course seeks to reexamine the pedagogical issues central to the 2L reading classroom, to be able to select suitable materials, to develop appropriate reading activities, to identify valid assessment measures, and to plan effective reading lessons suitable for instruction of ESL/CLD students.

Prerequisite(s):

Clear Fingerprint background check

CLD 406 - TESOL Writing

3 Credit(s)

This course introduces students interested in questions of language acquisition to the theories and practices of learning to write in a second language or second dialect. Topics included are 2L literacy development, writing theory, writing strategies, and 2L writers and rhetorical concerns. In addition, content examines teaching methodologies for second language/dialect literacy, assessment/evaluation of literacy skills, current research about acquisition of literacy skills, and political, cultural and social implications of ESL/ CLD literacy development. The main goal of this course is to assist practicing or prospective teachers to develop proficiency in promoting development of crucial 2L literacy/ writing skills among English Language Learners (ELLs). Content is responsive to the need to reexamine pedagogical issues central to the 2L writing classroom, and also be able to select suitable materials, to develop appropriate activities that address both second language literacy and content area knowledge, to identify valid assessment measures, to integrate technology into classrooms and to plan effective writing lessons suitable to the 2L classroom. Lastly, as part of the course content, we will seek to foster cultural sensitivity to the diverse student population becoming increasingly prevalent in classrooms in the U.S. We will also be concerned with providing the basic skills needed to satisfactorily assess the suitability of diverse 2LL methodologies & programs to meet the needs of limited English proficiency (LEP) students. An underlying assumption of the course is that learning is a social process that takes place within the broader social milieu of the learner's speech community. Accordingly, 2L learners bring into the classroom diverse language and cultural backgrounds, as well as a unique set of competencies, skills, sensitivities, goals, and needs. They may also

bring with them different levels of L1 literacy skills. In order to provide for a successful learning environment, teachers must be able to identify and relate to the diversity inherent in today's student population and be able to take affirmative steps towards addressing the needs of the students in their classrooms. Course content and activities will assist participants in developing a greater appreciation of democracy and diversity in the classroom as we prepare for a global society as reflected in current theories of 2L development for academic purposes.

Prerequisite(s):

Teacher Education Background Check Passed

CLD 407 - TESOL Tests & Measurements

3 Credit(s)

This course examines language assessments in TESOL/ CLD. Course contents is intended to provide a practical and comprehensive overview of the different phases and activities involved in developing and implementing sound, rational, and effective language assessment instruments and activities. The course recognizes the relevance of context, purposiveness, and realistic discourse in testing. Specifically, the initial segment of the course will emphasize an integrated approach to educating English language learners (ELL) students, which encompasses social, cognitive, academic as well as linguistic dimensions and how to better assess the language instruction needs of ESL/CLD students. The course will focus on the practical applications of fundamental assessment principles, as well as development and evaluation of teacher-generated instruments for placement and diagnosis. Content discusses various principles for guiding either practicing and prospective teachers through an assessment process mindful of standards-based instruction (e.g., dictation, cloze summary, oral interview, role-plays, portfolio assessment techniques) for teaching ESL/ CLD students at various levels. Specific topics addressed include, 1. Innovative means of assessing reading ability, 2. Standards and performance outcomes, 3. Evaluating writing & reading, 4. Computers in assessment, as well as computer-based tests, 5. Interpretation of summative assessments of content knowledge, 6. Administration and interpretation of the results of summative assessments of English language proficiency, 7. Development, administration and interpretation of the results of formative assessments, 8. Theoretical and practical foundations of assessment for CLD populations, 9. Practices and approaches to testing that is responsive to varied measurement contexts, 10. Evaluation of reliability and validity of measures, and a variety of techniques available that.

Prerequisite(s):

Clear Fingerprint background check

CLD 408 - Bilingualism

3 Credit(s)

This course is a study of what it means to be a bilingual child or adult. It explores both the mind's role in bilingualism and in language acquisition as well as societal considerations. It surveys educational systems response to language variance among students and explores the social, academic and language learning consequences of growing up bilingual. Content seeks to familiarize students with various aspects of bilingual education and language contact from a social-psychological perspective. It aims at providing for analysis and evaluation of current theory and research on bilingualism, as well as for examination of pertinent pedagogical implications/applications. First, we are interested in both social and individual factors related to bilingualism. That is, how and why bilingualism originates both as an individual and a societal phenomenon, and the social-psychological consequences of the same. Accordingly, we will consider topics such as: language attitudes, language and nation, bilingualism and inter-group relations, speech style and social evaluation. Second, we will also consider some important aspects of language contact such as: linguistic borrowing; code switching; language maintenance and language shift; English as a language of wider communication; language and context; diglossia; conversational interactions; language policy; language and culture. Third, we will also examine some significant aspects of the psychology of bilingualism. Specific topics to be covered are: cognitive and sociocultural consequences of bilingualism; neurolinguistic aspects of language acquisition and bilingualism; theoretical and research issues of bilingual education; performance of bilingual children on standardized tests;

alternative approaches to testing and assessment of bilinguals; the teaching of English to non-native English speakers in the state of Colorado. NOTE: A supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

CLD 479 - Special Topics

0.5 to 6 Credit(s)

Offered periodically to meet the needs of students.

Prerequisite(s):

Clear Fingerprint background check

Plus Additional Elementary Education Licensure Requirements from the School of Education

Bachelor of Arts in Elementary Education

Bachelor of Arts in Elementary Education Licensure, Literacy Emphasis

Go to: Bachelor of Arts in Elementary Education

Go to: Languages, Literature, and Media Communication

Degree Requirements

- Completion of requirements for a bachelor's degree
- A minimum of 120 academic (non-PE) semester hours of credit.
- At least 42 academic credits must be upper division (300- to 400-level).
- A cumulative scholastic average of 2.0.
- General education courses must be completed with an average GPA of at least 2.0.
- All general education, major, minor, area of concentration, or teacher licensure requirements must be satisfied.
- All students must demonstrate writing proficiency by the end of the sophomore year.
- No D grade may apply to a major or minor field.
- For elementary education licensure, students must complete the Content Area Emphasis and Bachelor of Arts in Interdisciplinary Studies Degree Requirements

Required Courses for Emphasis

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T
AND

ENG 102 Minimum Grade: C- OR T

ENG 226 - Introduction to Linguistics

3 Credit(s)

This course is an in-depth introduction to linguistics. It will include discussion of the syntax, phonology, morphology, semantics, and pragmatics of English. Additionally it may include a basic introduction to issues such as historical linguistics, first and second language acquisition, psycholinguistics, sociolinguistics, and other issues relevant to the field.

Prerequisite(s):

ENG-101 Minimum Grade: C- OR T

ENG 227 - Introduction to Creative Writing

3 Credit(s)

Students write and read poetry, fiction, creative nonfiction, and drama, develop aesthetic standards, and evaluate their writing and that of their classmates. Course emphasizes the writing process, including strategies for invention and revision, and presents ideas for teaching creative writing.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

- One literature course, 300 level or above
- One writing course, 300 level or above
- One English elective, 300 level or above (or a COMM or THTR course upon department chair approval)

Plus Additional Elementary Education Licensure Requirements from the School of Education

Bachelor of Arts in Elementary Education

Bachelor of Arts in Elementary Education Licensure, Mathematics Emphasis

Go to: Bachelor of Arts in Elementary Education

Go to: Mathematics

Students must complete a minimum of 15 credits

Two courses from this list must be selected

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T
OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T
OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Pick two or three courses from the following so that the total emphasis coursework totals a minimum of 15 credits

MATH 140 - Geometry Using Technology

3 Credit(s)

An introduction to the major concepts of Euclidean Geometry using interactive geometric visualization software such as Geometer's Sketchpad, Kig, or C.a.R. Students will use the software to survey Euclidean Geometry and discover basic principles and theorems.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

Accuplacer - Math - Minimum Score: 085

OR

MATH 99 Minimum Grade: S OR T

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

MATH 230 - Excursions in Mathematics**3 Credit(s)**

A quantitative and qualitative exploration of some of the great ideas and methods of mathematics. The main focus is on critical thinking and problem solving, as well as mathematical communication. Topics covered include infinity, logic, probability, statistics, Fibonacci numbers, the golden ratio, topology, non-Euclidean geometry, graphs, Pascal's triangle, tiling, fractals, voting theory chaos, and higher dimensions.

Prerequisite(s):

MATH 107 Minimum Grade: C- OR T
OR

MATH 120 Minimum Grade: C- OR T

CSCI 104 - Fundamentals of Programming**3 Credit(s)**

This course is the first course in the introductory programming sequence for computer science and information technology majors, but is suitable for non-majors interested in getting a taste of computer programming. The course covers program creation, basic control structures, variables, arithmetic expressions, functions, parameters, internal documentation, arrays and strings.

OR

CSCI 202 - Programming for Science/Math/Engineering**3 Credit(s)**

Covers the fundamentals of programming in a language widely used in mathematical, scientific, and engineering disciplines. The programming language may vary each time the course is offered. Examples of languages that may be used in the course include C++, Python, and MatLab.

Prerequisite(s):

Math Placement Test - Minimum Score: 5

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

Only CSCI 104 or CSCI 202 can be completed as part of the emphasis area.

Plus Additional Elementary Education Licensure Requirements from the School of Education

Bachelor of Arts in Elementary Education

Bachelor of Arts in Elementary Education Licensure, Music Emphasis

Go to: Bachelor of Arts in Elementary Education

Go to: Music

Required Courses in Music

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

MUS 101 - Music Fundamentals

2 Credit(s)

An introductory course for music majors and minors that includes the fundamentals of music theory, notation, and basic aural skills. May not be counted as credit towards a music degree.

MUS 103 - Introduction to Music Technology

1 Credit(s)

An introduction to music technology, covering a broad range of topics such as music notation, MIDI, music sequencing, mixing, and basic audio editing. The programs to be used include Finale, Garageband, and Audacity, and students compose music utilizing basic concepts of music fundamentals and music theory. The goal of this course is to equip students with music technology skills and knowledge that will be of benefit during their collegiate and professional careers.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 120 - Class Piano I

1 Credit(s)

A study of beginning keyboard techniques with emphasis on the skills needed to fulfill the piano proficiency requirement.

MUS 121 - Class Piano II

1 Credit(s)

A study of intermediate keyboard techniques with emphasis on the skills needed to fulfill the piano proficiency requirement.

Prerequisite(s):

MUS 120 Minimum Grade: C- OR T

MUS 130 - Secondary Applied Music

1 Credit(s)

Private instruction in applied music. Applicable to a music degree only as secondary applied credit. May be repeated for credit (eight hours maximum).

MUS 247 - Concert Choir

1 Credit(s)

Open to all qualified students with repertoire selected from the standard choral concert literature. May be repeated for credit.

OR

MUS 257 - Chamber Choir

1 Credit(s)

An advanced mixed choral ensemble, open to students by audition. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

MUS 399 - Independent Study (Practicum)

3 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

MUS 421 - Elementary School Music Methods

3 Credit(s)

A comprehensive study of principles, procedures and pedagogical approaches for teaching and administering music programs in elementary schools (grades K-6). A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation. Students must be enrolled in the Teacher Education Program.

Prerequisite(s):

ED 200 Minimum Grade: C OR T
AND

ED 220 Minimum Grade: C OR T

AND

MUS 304 Minimum Grade: C OR T

AND

MUS 360 Minimum Grade: C OR T

AND

Admission to the Educator Preparation Program

AND

Teacher Education Background Check Passed

**Plus Additional Elementary Education Licensure Requirements from
the School of Education**

Bachelor of Arts in Elementary Education

Bachelor of Arts in Elementary Education Licensure, Social Studies Emphasis

Go to: Bachelor of Arts, Secondary Education Licensure

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

Required Courses for Emphasis

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

Other Half of U.S. Survey Not Taken for Interdisciplinary Major Core (3 Hours)

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

OR

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Content Electives (9 Hours)

Recommended courses are listed below. Students **MUST** take courses from at least two of the following fields: HIST, POLS, ECON, SOC or ANTH.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

POLS 307 - Introduction to World Governments

3 Credit(s)

This course is specifically designed to prepare education majors for the licensing exam. It is also of interest to history/political science students who want a better understanding of institutions and systems.

HIST 357 - Mexico

3 Credit(s)

Historical survey of the social, intellectual, and political developments from the conquest to the present.

SOC 318 - Race, Class, and Gender

3 Credit(s)

The focus of this course is on the interrelated ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result and the dynamics of change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

POLS 393 - Women, Politics, and Culture

3 Credit(s)

Interdisciplinary analysis of politics and culture. Course examines the role of gender in the political culture of the United States and selected societies in industrialized and developing nations. Of special interest to those wishing to pursue an interest in women's studies and/or cultural anthropology.

Plus Additional Elementary Education Licensure Requirements from the School of Education

Bachelor of Arts in Elementary Education

Bachelor of Arts in Elementary Education Licensure, Spanish Emphasis

Go to: Bachelor of Arts in Elementary Education

Go to: Languages, Literature, and Media Communication

Required Spanish Courses for Spanish Emphasis

SPAN 103 - Elementary Spanish I

4 Credit(s)

A study of the principles of pronunciation, basic level conversation, essentials of grammar, written composition, and reading of materials of graded difficulty.

SPAN 104 - Elementary Spanish II

4 Credit(s)

A continuation of SPAN 103. Covers the principles of pronunciation, conversation, essentials of grammar, written composition, and reading of materials of graded difficulty.

Prerequisite(s):

SPAN 103 Minimum Grade: C- OR T

SPAN 203 - Intermediate Spanish I

3 Credit(s)

Review of grammar, written composition, and translation. Special attention to vocabulary building. Emphasis on understanding and speaking Spanish.

Prerequisite(s):

SPAN 104 Minimum Grade: C- OR T

SPAN 204 - Reading and Conversation

3 Credit(s)

Readings on cultural topics, discussions, speaking activities, review of some grammatical features, attention to vocabulary building. Emphasis on understanding and speaking Spanish.

Prerequisite(s):

SPAN 203 Minimum Grade: C- OR T

- 300-400 level SPAN Elective
- 300-400 level SPAN Elective

Plus Additional Elementary Education Licensure Requirements from the School of Education

Bachelor of Arts in Elementary Education

Bachelor of Arts in English, Creative Writing Emphasis

Go to: Languages, Literature, and Media Communication

Required Courses (33 hours)

ENG 226 - Introduction to Linguistics

3 Credit(s)

This course is an in-depth introduction to linguistics. It will include discussion of the syntax, phonology, morphology, semantics, and pragmatics of English. Additionally it may include a basic introduction to issues such as historical linguistics, first and second language acquisition, psycholinguistics, sociolinguistics, and other issues relevant to the field.

Prerequisite(s):

ENG-101 Minimum Grade: C- OR T

ENG 227 - Introduction to Creative Writing

3 Credit(s)

Students write and read poetry, fiction, creative nonfiction, and drama, develop aesthetic standards, and evaluate their writing and that of their classmates. Course emphasizes the writing process, including strategies for invention and revision, and presents ideas for teaching creative writing.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

ENG 309 - British Literature I: Monsters and Magic

3 Credit(s)

This course is the first of a two-course historical survey of British Literature from the sixth to the twenty-first centuries. English 309 starts with the pre-Norman writers and ends in the mid eighteenth century. Eng. 310 begins with the eighteenth century and ends with contemporary authors. This combination of courses will lay the foundation for more advanced, focused study of specific authors and periods in the British literary tradition. Neither 309 or 310 will assume the other as a prerequisite.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 310 - British Literature II: Bodies and Empire

3 Credit(s)

This course is the second of a two-course historical survey of British Literature from the sixth to the twenty-first centuries. English 309 starts with the pre-Norman writers and ends in the mid eighteenth century. Eng. 310 begins with the eighteenth century and ends with contemporary authors. This combination of courses will lay the foundation for more advanced, focused study of specific authors and periods in the British literary tradition. Neither 309 or 310 will assume the other as a prerequisite.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 363 - Professionalization and Publishing

3 Credit(s)

Students will practice writing at an intensive level beyond the research or argument papers they wrote in English 102, and beyond the literary critiques they have written for literature courses. Instruction will focus on real-world skills and practical applications for writing. The course will also discuss writing-related career paths and professionalization techniques. Except for the senior capstone course, the writing here includes the ultimate writing tasks of the students undergraduate career. It is expected that several items from this course will contribute to the students' senior portfolio.

Prerequisite(s):

Junior or Senior Standing

ENG 365 - Ethnic and Minority Literature

3 Credit(s)

A study of the literature of Native American, African-American, Chicano, and other American ethnic and minority groups.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 394 - American Literature I: Discovery and Colonization

3 Credit(s)

Several of the figures studied in this class-such as Christopher Columbus, Anne Bradstreet, Hector St. Jean de Crevecoeur, and Thomas Jefferson-are frequently referenced in contemporary discussions of the American "character," yet are poorly understood by most. A basic knowledge of the literatures of colonial America and the early United States deepens students' understanding of these figures, and hence of American history, culture, politics, and identity. This course complements American Literature II and is required of all English liberal arts and secondary education majors.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 395 - American Literature II: Marginalized Voices

3 Credit(s)

Survey of American literature from 1865 to the present. Thematic emphases include the development of African American, Native American, and feminist literary traditions; industrialization, urbanization, and the closing of the frontier; realism, naturalism, and modernism; the Lost Generation; and the Sixties and postmodernism.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 403 - Shakespeare

3 Credit(s)

Combines study of comedies, histories, and tragedies.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

OR

ENG 407 - Chaucer: Epics and Dirty Jokes

3 Credit(s)

Concentrates mainly on the Canterbury Tales, but covers other major works as time permits.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

ENG 480 - Contemporary Literary Theory

3 Credit(s)

Study of the developments of literary critical theory and practice from the beginning of the 20th century to the present. Some emphasis on important earlier theories as they relate to contemporary developments.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

ENG 497 - Capstone Writing Workshop

3 Credit(s)

This course is designed as a capstone for all Creative Writing majors. The content of the course will focus on organization, editing, and honing of a final writing project.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

AND

ENG 214 Minimum Grade: C- OR T

OR

THTR 213 Minimum Grade: C- OR T

AND

ENG 227 Minimum Grade: C- OR T

AND

ENG 326 Minimum Grade: C- OR T

AND

ENG 327 Minimum Grade: C- OR T

AND

ENG 328 Minimum Grade: C- OR T

Two Courses from the following (6 hours)

ENG 413 - World-Building: SciFi/Horror/Fantasy

3 Credit(s)

Students will further develop their craft and creativity in the genres of science fiction, fantasy, and horror through developing all elements of fiction and adding research and world-building. Students will submit their original writing, read works of published speculative fiction, science fiction, fantasy, and horror, and critique their own work and the work of their classmates.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

AND

ENG 227 Minimum Grade: C- OR T

AND

ENG 327 Minimum Grade: C- OR T

ENG 326 - Creative Writing Poetry Workshop I

3 Credit(s)

This course will teach students to develop their craft and creativity in the genre of poetry. Students submit original poems weekly, read selected works of contemporary, published poetry, and critique their own work and that of their classmates. Students practice revision and submit revised work in a final portfolio of at least 10 pages.

Prerequisite(s):

ENG 227 Minimum Grade: C- OR T

AND

ENG 210 Minimum Grade: C- OR T

OR

ENG 203 Minimum Grade: C- OR T

ENG 327 - Fiction Workshop I

3 Credit(s)

This course will teach students to develop creativity in the genre of prose fiction (short story). Students will submit their original writing, read works of published fiction, and critique their own work and the work of their classmates.

Prerequisite(s):

ENG 227 Minimum Grade: C- OR T

ENG 328 - Creative Nonfiction I

3 Credit(s)

This course covers techniques in nonfiction writing encompassing a variety of styles, forms, and topics, encouraging exploration of the genre's innumerable possibilities while developing the student's personal and critical theories of writing.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T
AND

ENG 227 Minimum Grade: C- OR T

Two Courses from the following (6 hours)

ENG 301 - The Graphic Novel

3 Credit(s)

This course will discuss the form, history, context, and influence of graphic novels.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

ENG 322 - Interactive Storytelling

3 Credit(s)

This course is a survey of forms of interactive literature encompassing media (e.g. video games, interactive films, collaborative stories, role-playing games, gamebooks, new intersections of interactive art and technology). This course will include strategies for creating interactive stories with the goal of broadening and developing the students' own skills in generating or facilitating interactive stories.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T
AND

ENG 227 Minimum Grade: C- OR T

ENG 426 - Poetry Workshop II

3 Credit(s)

This course will teach students to further develop their craft and creativity in the genre of poetry. Students will submit original poems weekly, read selected works of contemporary published poetry, and critique their own work and the work of their classmates. They will practice revision and submit revised work in a portfolio of at least 15 pages.

Prerequisite(s):

ENG 326 Minimum Grade: C- OR T

ENG 427 - Fiction Workshop II

3 Credit(s)

This course will teach students to further develop their craft and creativity in the genre of prose fiction (short story). Students will submit their original writing, read works of published fiction, and critique their own work and the work of their classmates.

Prerequisite(s):

ENG 327 Minimum Grade: C- or T

ENG 428 - Creative Nonfiction II

3 Credit(s)

This course covers advanced techniques in nonfiction writing begun in ENG 328 as the student assembles a portfolio of work suitable for application to graduate programs.

Prerequisite(s):

ENG 328 Minimum Grade: C- OR T

- Summer Writing Workshops as approved by advisor

Overall total required credits for B.A. English Creative Writing 45 hours

Bachelor of Arts in English, Literature Emphasis

Go to: Languages, Literature, and Media Communication

Program Requirements (45 credits total)

Required Courses (36 credits)

ENG 226 - Introduction to Linguistics

3 Credit(s)

This course is an in-depth introduction to linguistics. It will include discussion of the syntax, phonology, morphology, semantics, and pragmatics of English. Additionally it may include a basic introduction to issues such as historical linguistics, first and second language acquisition, psycholinguistics, sociolinguistics, and other issues relevant to the field.

Prerequisite(s):

ENG-101 Minimum Grade: C- OR T

ENG 227 - Introduction to Creative Writing

3 Credit(s)

Students write and read poetry, fiction, creative nonfiction, and drama, develop aesthetic standards, and evaluate their writing and that of their classmates. Course emphasizes the writing process, including strategies for invention and revision, and presents ideas for teaching creative writing.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

ENG 309 - British Literature I: Monsters and Magic

3 Credit(s)

This course is the first of a two-course historical survey of British Literature from the sixth to the twenty-first centuries. English 309 starts with the pre-Norman writers and ends in the mid eighteenth century. Eng. 310 begins with the eighteenth century and ends with contemporary authors. This combination of courses will lay the foundation for more advanced, focused study of specific authors and periods in the British literary tradition. Neither 309 or 310 will assume the other as a prerequisite.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 310 - British Literature II: Bodies and Empire

3 Credit(s)

This course is the second of a two-course historical survey of British Literature from the sixth to the twenty-first centuries. English 309 starts with the pre-Norman writers and ends in the mid eighteenth century. Eng. 310 begins with the eighteenth century and ends with contemporary authors. This combination of courses will lay the foundation for more advanced, focused study of specific authors and periods in the British literary tradition. Neither 309 or 310 will assume the other as a prerequisite.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 363 - Professionalization and Publishing

3 Credit(s)

Students will practice writing at an intensive level beyond the research or argument papers they wrote in English 102, and beyond the literary critiques they have written for literature courses. Instruction will focus on real-world skills and practical applications for writing. The course will also discuss writing-related career paths and professionalization

techniques. Except for the senior capstone course, the writing here includes the ultimate writing tasks of the students undergraduate career. It is expected that several items from this course will contribute to the students' senior portfolio.

Prerequisite(s):

Junior or Senior Standing

ENG 365 - Ethnic and Minority Literature

3 Credit(s)

A study of the literature of Native American, African-American, Chicano, and other American ethnic and minority groups.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 394 - American Literature I: Discovery and Colonization

3 Credit(s)

Several of the figures studied in this class-such as Christopher Columbus, Anne Bradstreet, Hector St. Jean de Crevecoeur, and Thomas Jefferson-are frequently referenced in contemporary discussions of the American "character," yet are poorly understood by most. A basic knowledge of the literatures of colonial America and the early United States deepens students' understanding of these figures, and hence of American history, culture, politics, and identity. This course complements American Literature II and is required of all English liberal arts and secondary education majors.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 395 - American Literature II: Marginalized Voices

3 Credit(s)

Survey of American literature from 1865 to the present. Thematic emphases include the development of African American, Native American, and feminist literary traditions; industrialization, urbanization, and the closing of the frontier; realism, naturalism, and modernism; the Lost Generation; and the Sixties and postmodernism.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 403 - Shakespeare

3 Credit(s)

Combines study of comedies, histories, and tragedies.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 480 - Contemporary Literary Theory

3 Credit(s)

Study of the developments of literary critical theory and practice from the beginning of the 20th century to the present. Some emphasis on important earlier theories as they relate to contemporary developments.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 490 - Major Authors

3 Credit(s)

Study of major figures in fiction, dramatic literature, and poetry. Author(s) will be selected by instructor. Students may repeat this course for credit if the course material is significantly different from the previously taken course. Students should consult with their advisor about course selection.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 495 - Senior Seminar

3 Credit(s)

This course is designed to be the academic capstone experience for all students who are majoring in English/Liberal Arts and to prepare students for graduate studies in the field. Subject matter will vary depending upon the instructor's specialization or area of interest. All seminar students will write a major research essay that reflects the student's mastery of library usage, research methodology, breadth of knowledge, critical thinking, and writing ability.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

Plus 300 and 400-level English Literature Electives Approved by Advisor

Bachelor of Arts in English, Secondary Teacher Licensure

Go to: Bachelor of Arts, Secondary Education Licensure
Go to: Languages, Literature, and Media Communication

1. Complete the Following Required Courses

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T
AND

ENG 102 Minimum Grade: C- OR T

ENG 226 - Introduction to Linguistics

3 Credit(s)

This course is an in-depth introduction to linguistics. It will include discussion of the syntax, phonology, morphology, semantics, and pragmatics of English. Additionally it may include a basic introduction to issues such as historical linguistics, first and second language acquisition, psycholinguistics, sociolinguistics, and other issues relevant to the field.

Prerequisite(s):

ENG-101 Minimum Grade: C- OR T

ENG 227 - Introduction to Creative Writing

3 Credit(s)

Students write and read poetry, fiction, creative nonfiction, and drama, develop aesthetic standards, and evaluate their writing and that of their classmates. Course emphasizes the writing process, including strategies for invention and revision, and presents ideas for teaching creative writing.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

ENG 309 - British Literature I: Monsters and Magic

3 Credit(s)

This course is the first of a two-course historical survey of British Literature from the sixth to the twenty-first centuries. English 309 starts with the pre-Norman writers and ends in the mid eighteenth century. Eng. 310 begins with the eighteenth century and ends with contemporary authors. This combination of courses will lay the foundation for more advanced, focused study of specific authors and periods in the British literary tradition. Neither 309 or 310 will assume the other as a prerequisite.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 310 - British Literature II: Bodies and Empire**3 Credit(s)**

This course is the second of a two-course historical survey of British Literature from the sixth to the twenty-first centuries. English 309 starts with the pre-Norman writers and ends in the mid eighteenth century. Eng. 310 begins with the eighteenth century and ends with contemporary authors. This combination of courses will lay the foundation for more advanced, focused study of specific authors and periods in the British literary tradition. Neither 309 or 310 will assume the other as a prerequisite.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 314 - Adolescent Literature**3 Credit(s)**

A course designed to acquaint prospective teachers of English with representative literature of adolescence.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 316 - Methods/English in Secondary School**3 Credit(s)**

A study of effective teaching methods used in presenting grammar, composition, and literature to junior and senior school students. Usually taken as part of the Education licensure senior block. Students should have a strong preparation in upper-division English content courses. Admission to the Teacher Education Program is required. This course must be taken along with other courses designated in the senior block. Students wishing to take the course who do not meet the above requirements must obtain instructor permission.

Prerequisite(s):

ED 200 Minimum Grade: C OR T
AND

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

AND

ENG 226 Minimum Grade: C- OR T

AND

Admission to the Educator Preparation Program

AND

Teacher Education Background Check Passed

AND

ED 220 Minimum Grade: T

ENG 357 - Studies in Linguistics

3 Credit(s)

This course is an in-depth study of topics related to linguistics. These topics may include historical linguistics, first and second language acquisition, psycholinguistics or sociolinguistics.

Prerequisite(s):

ENG 226 Minimum Grade: C- OR T

ENG 359 - Mythology

3 Credit(s)

An in-depth study of world mythology to familiarize students with major cultural and literary traditions.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 358 - Bible as Literature

3 Credit(s)

This course analyzes the Bible as literature, examines the use of biblical motifs, imagery, and themes in post-biblical texts, and explores the First Amendment challenges confronting those who plan to teach Bible-as-literature courses in the public schools.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

ENG 363 - Professionalization and Publishing

3 Credit(s)

Students will practice writing at an intensive level beyond the research or argument papers they wrote in English 102, and beyond the literary critiques they have written for literature courses. Instruction will focus on real-world skills and practical applications for writing. The course will also discuss writing-related career paths and professionalization techniques. Except for the senior capstone course, the writing here includes the ultimate writing tasks of the students undergraduate career. It is expected that several items from this course will contribute to the students' senior portfolio.

Prerequisite(s):

Junior or Senior Standing

ENG 365 - Ethnic and Minority Literature

3 Credit(s)

A study of the literature of Native American, African-American, Chicano, and other American ethnic and minority groups.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

OR

ENG 375 - Chicano Literature

3 Credit(s)

This course explores the canon of Chicana/o Literature and its multiple influences. Specifically, the course deals with the cultural, political and societal climates that necessitated the literature. The course will focus on oral tradition and its evolution into other genres of Chicana/o Literature (poetry, fiction, & essay). Chicana/o Literature (poetry, fiction, & essay).

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 394 - American Literature I: Discovery and Colonization

3 Credit(s)

Several of the figures studied in this class-such as Christopher Columbus, Anne Bradstreet, Hector St. Jean de Crevecoeur, and Thomas Jefferson-are frequently referenced in contemporary discussions of the American "character," yet are poorly understood by most. A basic knowledge of the literatures of colonial America and the early United States deepens students' understanding of these figures, and hence of American history, culture, politics, and identity. This course complements American Literature II and is required of all English liberal arts and secondary education majors.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 395 - American Literature II: Marginalized Voices

3 Credit(s)

Survey of American literature from 1865 to the present. Thematic emphases include the development of African American, Native American, and feminist literary traditions; industrialization, urbanization, and the closing of the frontier; realism, naturalism, and modernism; the Lost Generation; and the Sixties and postmodernism.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 403 - Shakespeare

3 Credit(s)

Combines study of comedies, histories, and tragedies.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

Plus Additional Secondary Education Licensure Requirements from the School of Education

Bachelor of Arts, Secondary Education Licensure

Bachelor of Arts in Geosciences

Go to: Geosciences

Specific courses required for this degree:

A. Required Courses (15 Credit Hours)

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes

identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

GSCI 112 - Earth History

4 Credit(s)

Introduction to the geological evolution of the earth through time using basic principles of stratigraphy and paleontology. Laboratory work includes identification and classification of fossils and correlation of sedimentary environments.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

GSCI 201 - Introduction to Cartography and GIS

3 Credit(s)

This course will introduce students to the core concepts of Geographic Information Systems (GIS) and the importance and relevance of GIS in today's world. Students will learn what GIS is, what it is used for, and how to perform basic and

core tasks involving GIS analysis. An objective is to help students develop the ability to think critically about cartographic processes and representations as well as develop their skills in creating maps. Students are expected to have basic computer proficiency prior to enrolling in this course.

GSCI 350 - Geology Excursion

2 Credit(s)

This course centers around a field trip experience of approximately one week, generally during spring break, to different areas of the southwestern U.S. This course may be taken only twice for credit. An additional fee is required. Camping and outdoor activity is required.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 450 - Senior Capstone in Geosciences

2 Credit(s)

Capstone experiences integrate material learned in the major through independent research and creative thinking by students. The capstone experience may include a primary research experience (such as field project or internship) or a substantive exploration of a geoscience topic. Emphasis is also placed on effective writing and oral presentation skills.

B. A Minimum Of 2 Courses From The Following (7 To 8 Credits)

GSCI 307 - Bio-Geography

3 Credit(s)

The course builds upon topics introduced in the introductory physical geography and general biology courses and synthesizes concepts addressed in other upper-division courses dealing with vegetation science, climatology, soil, historical geology, ecology, and evolution to explain patterns and processes influencing past and present distributions of organisms.

Prerequisite(s):

GSCI 109 Minimum Grade: C-
AND

BIOL 209 Minimum Grade: C-

GSCI 311 - Climatology

4 Credit(s)

This course examines the global patterns of climate and the processes that shape them. Particular attention is given to climate change mechanisms (past & present), human-induced changes to the climate system, and likely future climates. Field- and computer-based methodology relevant to the field of climatology is also emphasized.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 321 - Geomorphology with Environmental Applications

4 Credit(s)

This course is a study of the processes that control the development of the materials and landforms found on the earth's surface. An emphasis is placed upon the hydrologic and variables in generating landforms and human interactions with these formative processes. Field trips, topographic map, and aerial photo exercises are required. Offered spring semester of even-numbered years.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 330 - Nature and Properties of Soils

4 Credit(s)

This course analyzes soils as natural bodies and managed resources, focusing on impacts of landforms, hydrology, nutrients, and organisms on soils. The laboratory includes analysis of soil patterns, methods of sampling, and techniques of determining physical and chemical properties of soils. Course includes three hours of lecture and two hours of laboratory per week.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

GSCI 411 - Mountain Geography

3 Credit(s)

This class focuses on the physical science of mountains, including the origin of mountains as well as the climatic, geomorphic, and ecological processes and patterns found in mountain environments. The impact of mountains on human settlement and activities are discussed, as well as how humans have impacted mountain environments.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 421 - Glacial and Periglacial Geography

3 Credit(s)

This course will examine geomorphological aspects of the cryosphere, giving emphasis to the study of landforms and sediments created by ice sheets and periglacial processes both past and present. Where relevant, the applied aspects of glacial and periglacial geomorphology will be given specific attention.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

C. A Minimum Of 2 Courses From The Following (7 To 9 Credits)

GSCI 331 - Macro and Optical Mineralogy

5 Credit(s)

This course provides a systematic identification of natural minerals and gemstones utilizing their physical, crystallographic, and optical characteristics.

Prerequisite(s):

GSCI 112 Minimum Grade: C- OR T

GSCI 371 - Structural Geology

4 Credit(s)

This course focuses on the recognition, representation, and significance of geologic structures of the earth's crust. This course includes occasional required field trips and is offered fall semester of even-numbered years.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 343 - Sedimentology and Stratigraphy

4 Credit(s)

This course studies the origin and occurrence of sedimentary materials and their vertical succession. Sediment dynamics and structures will be explored within various depositional settings. Course includes required field trips. GSCI-343 is complementary to Igneous and Metamorphic Petrology (GSCI-334).

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 433 - Environmental Geochem Model

3 Credit(s)

This lecture and computer modeling course examines the interaction of geological materials with the surface environment. Processes of transport and fate of contaminants and pollutants from natural and man made sources will be addressed, as well as the geology of some natural resources that contribute pollutants.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

AND

CHEM 131 Minimum Grade: C- OR T

OR

CHEM 132 Minimum Grade: C- OR T

GSCI 440 - Groundwater

4 Credit(s)

This course explores the groundwater system and its relationship with surface water systems of rivers, lakes, and oceans.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620 and GSCI 112 Minimum Grade: C- or T

D. A Minimum Of 2 Courses From The Following (5 To 8 Credits)

GSCI 212 - Natural Resource Management on Public Lands

3 Credit(s)

This course will examine public lands management from both a theoretical and descriptive perspective. The major political forces affecting public lands, and the specific details of energy policy, forests, rangelands, national parks, and wildlife on public lands are discussed.

Prerequisite(s):

GSCI 109 Minimum Grade: C-
OR

BIOL 330 Minimum Grade: C-

GSCI 300 - World Geography

3 Credit(s)

The course examines human or cultural geography with a global perspective. It uses a topic centered approach. It is intended to give the student an appreciation of the interaction between physical geography, environment, and cultural practices.

GSCI 420 - Remote Sensing

4 Credit(s)

The course considers acquisition and interpretation of remote sensed environmental data, theory and sensors, and

manual and computerized interpretation methods.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T
AND

GSCI 201 Minimum Grade: C- OR T

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T
AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

BIOL 314 - Conservation Biology

3 Credit(s)

Conservation biology is the study of how to preserve the world's biological and genetic diversity while maintaining functional ecosystems. The course will explore these issues using an integrated approach with emphasis on identifying ways that wildlife and humans can sustainably coexist.

Prerequisite(s):

BIOL 330 Minimum Grade: C- OR T
OR

GSCI 307 Minimum Grade: C- OR T

BIOL 468 - Vegetation/Habitat Management

3 Credit(s)

A study of the composition, structure and productivity of vegetation with emphasis on ecological applications in creating and managing wildlife habitat.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

OR

BIOL 330 Minimum Grade: C- OR T

AND

GEOG 212 Minimum Grade: C- OR T

E. A Minimum Of 1 Course From The Following (3 Credit Hours)

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 384 - Natural Resources/Water Law

3 Credit(s)

The goal of this course is to provide students with knowledge of the regulatory responsibilities related to agriculture production and operations with respect to natural resources and water. The course will cover federal, state, and local requirements as well as application to agribusiness endeavors.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 211 Minimum Grade: C- OR T

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

F. Completion Of Required Support Courses (21 Credit Hours)

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 112 - Introduction to Organic/Biological Chemistry

4 Credit(s)

A study of the fundamental concepts of organic chemistry and biochemistry. Will not satisfy requirements for a chemistry major, minor or pre-professional studies (pre-med etc.) The course is satisfactory for biology majors who take only one year of chemistry, and for HPPE advanced track.

Prerequisite(s):

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 112L

OR

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T

OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Total Credit Hours 58-64

A Minor Is Highly Recommended

Bachelor of Arts in Geosciences, Science Education Emphasis with Geosciences Secondary Teacher Licensure

Go to: Bachelor of Arts, Secondary Education Licensure
Go to: Geosciences

The secondary teacher licensure program qualifies a student for a Colorado standard teaching license in science education.

1. Complete the Following Required Courses

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

GSCI 112 - Earth History

4 Credit(s)

Introduction to the geological evolution of the earth through time using basic principles of stratigraphy and paleontology. Laboratory work includes identification and classification of fossils and correlation of sedimentary environments.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

GSCI 321 - Geomorphology with Environmental Applications

4 Credit(s)

This course is a study of the processes that control the development of the materials and landforms found on the earth's surface. An emphasis is placed upon the hydrologic and variables in generating landforms and human interactions with these formative processes. Field trips, topographic map, and aerial photo exercises are required. Offered spring semester of even-numbered years.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 331 - Macro and Optical Mineralogy

5 Credit(s)

This course provides a systematic identification of natural minerals and gemstones utilizing their physical, crystallographic, and optical characteristics.

Prerequisite(s):

GSCI 112 Minimum Grade: C- OR T

GSCI 334 - Igneous/Metamorphic Petrology

5 Credit(s)

The study of the occurrence and origin of igneous and metamorphic rock. Laboratory exercises will emphasize the petrographic analysis of both macro and optical components of igneous and metamorphic rocks. Course includes field trips. Course is offered Spring semester of even-numbered years. GSCI-334 is a complimentary course with GSCI-343 Sedimentology and Stratigraphy

Prerequisite(s):

GSCI 331 Minimum Grade: C- OR T

GSCI 343 - Sedimentology and Stratigraphy

4 Credit(s)

This course studies the origin and occurrence of sedimentary materials and their vertical succession. Sediment dynamics and structures will be explored within various depositional settings. Course includes required field trips. GSCI-343 is complementary to Igneous and Metamorphic Petrology (GSCI-334).

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 371 - Structural Geology

4 Credit(s)

This course focuses on the recognition, representation, and significance of geologic structures of the earth's crust. This course includes occasional required field trips and is offered fall semester of even-numbered years.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

Complete All Support Courses

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

ED 350 - Methods for Teaching Science - Secondary

3 Credit(s)

This course is designed to support the beginning secondary science teacher. Presuming a solid foundation of conceptual knowledge in the content area, the course emphasizes the development of a framework of instructional knowledge and skills to provide successful learning for all students.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

GSCI 300 - World Geography**3 Credit(s)**

The course examines human or cultural geography with a global perspective. It uses a topic centered approach. It is intended to give the student an appreciation of the interaction between physical geography, environment, and cultural practices.

MATH 107 - Trig/ Analytic Geometry GT-MA1**3 Credit(s)**

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2**3 Credit(s)**

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

PHYS 225 - College Physics I GT-SC1**5 Credit(s)**

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-

OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

Recommended Courses

CSCI 104 - Fundamentals of Programming

3 Credit(s)

This course is the first course in the introductory programming sequence for computer science and information technology majors, but is suitable for non-majors interested in getting a taste of computer programming. The course covers program creation, basic control structures, variables, arithmetic expressions, functions, parameters, internal documentation, arrays and strings.

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

GSCI 201 - Introduction to Cartography and GIS

3 Credit(s)

This course will introduce students to the core concepts of Geographic Information Systems (GIS) and the importance and relevance of GIS in today's world. Students will learn what GIS is, what it is used for, and how to perform basic and

core tasks involving GIS analysis. An objective is to help students develop the ability to think critically about cartographic processes and representations as well as develop their skills in creating maps. Students are expected to have basic computer proficiency prior to enrolling in this course.

GSCI 123 - Geology of the San Luis Valley

1 Credit(s)

This course explores the local geology of the San Luis Valley and surrounding areas on day trips. Course is offered during the fall or spring semester. Outdoor activity required.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

Note

A minor in biology, chemistry, mathematics or physics is highly recommended for placement in a teaching position.

Plus Additional Secondary Education Licensure Requirements from the School of Education

Bachelor of Arts, Secondary Education Licensure

Bachelor of Arts in HAPS, History Emphasis

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

Specific courses required for this degree:

Completion of Six Credits of World History

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas

exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

Completion of the Following Core Courses

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

HGP 471 - Senior Seminar

3 Credit(s)

This course is designed to be the academic capstone experience for all students who have majored in History/Government. All seminar members will participate in the discussion of the assigned reading material. Each student will write a paper that reflects the student's mastery of library usage, research methodology, breadth of knowledge, and writing ability. The students will give oral presentations of their papers to the members of the Seminar. All students enrolled in the Senior Seminar will also write their Senior Comprehensive Examinations as part of the requirement for all History/Government majors. The Seminar topic will be chosen by the instructor but sufficient methodological approaches will be explored to accommodate the interests of students from either a History or Government emphasis.

Successful Completion of Senior Assessment Procedures

Completion of at Least Four Courses (12 Credit Hours)

from each of the following two fields.

Europe and Latin America-

HIST 328 - Chicano History

3 Credit(s)

A survey of the historical development of the character, economy, social structure, politics, culture, and ideas of the Spanish-speaking people of Mexican descent in the U.S. from settlement until present, with particular attention given to the San Luis Valley.

HIST 330 - The Middle Ages

3 Credit(s)

A survey of the development of European civilization from the decline of the Roman Empire to the Italian Renaissance.

HIST 331 - Renaissance and Reformation

3 Credit(s)

A survey of European civilization from the end of the Middle Ages through the Renaissance and Reformations, coverage of Catholic Counter-reformation as well as the Protestant Reformation, with special emphasis on culture, religion, art, politics, science, and social history.

HIST 334 - French Revolution and Napoleon

3 Credit(s)

An examination of the many complex causes, effects, and lessons of the French Revolution, including daily life, the Estates, politics, economics and the absolute monarchy in Old Regime France, the onset of the Revolution, Napoleon and his empire.

HIST 346 - Imperial Spain

3 Credit(s)

This course examines Spanish history from 1700 to the end of the twentieth century, devoting special attention to the role of Spain in Europe and the construction of colonies in Africa and Asia in addition to the Americas.

HIST 355 - Latin America to 1830

3 Credit(s)

A survey of the economic, political, and social dimensions of the colonial system. Themes include the pre-Columbian civilizations of the Americas, the imposition of European rule, the place of Latin America in the emerging Atlantic economy, and the independence movements of the early 19th century. Major emphasis will be given to the "core" areas of Mexico, Peru, and Northeastern Brazil, but other regions will also be considered.

HIST 356 - Latin America Since 1830

3 Credit(s)

This course will examine the evolution of Latin America from the aftermath of independence to the present. Major themes include: the incorporation of Latin America into the global economy, the effect of the export economy on the

region's peasant populations, the building of national states, the fate of revolutionary struggles in the 20th century, and Latin America's "neocolonial" relationship with the United States.

HIST 357 - Mexico

3 Credit(s)

Historical survey of the social, intellectual, and political developments from the conquest to the present.

HIST 432 - Age of Revolutions

3 Credit(s)

This course will serve as a study of the greater Atlantic world between 1750 and 1850 with a major focus on the late Enlightenment and the birth of liberalism, nationalism, and romanticism in trans-Atlantic and revolutionary contexts. It will devote special attention to major political and social revolutions. Additionally, the course will consider the importance of the late Scientific Revolution, the abolition of African slavery, and the early Industrial Revolution.

HIST 433 - Industry and Empire

3 Credit(s)

This course will serve as a study of the late nineteenth century to the start of World War I. It will devote special attention to the rise of industrial Europe and the expansion of European imperialism in Africa and Asia. Additionally, the course will consider the importance of the Darwinian Revolution and modernism in several scholarly fields.

HIST 434 - Twentieth Century Europe

3 Credit(s)

This course examines how the relationship of Europe and the world has been transformed, whether a new United States of Europe is emerging, or whether Europe is collapsing into ethnic nationalism. Current materials available through the Internet will be used in this course.

HIST 435 - History of Nazism and Fascism

3 Credit(s)

This course will survey the history of Italian Fascism and Nazism in Germany from the end of the First World War to 1945.

POLS 468 - U.S.-Latin American Relations

3 Credit(s)

This course will examine U.S.-Latin American Relations from the Monroe doctrine to the Present. It will explore recent developments in U.S.-Latin American relations, particularly the growing interdependence and the impact of the end of the cold war.

United States-

HIST 301 - Colorado History

3 Credit(s)

The development of Colorado from prehistoric times to the present.

HIST 305 - The American West

3 Credit(s)

Historical survey of the Indian-, Hispanic-, and English-speaking groups of the West. Emphasis is on the frontier period.

HIST 316 - American Revolution & Federalist Era

3 Credit(s)

A comprehensive study of the period from 1763 to 1801, with particular attention given to the American Revolution, the Confederation, the Constitutional Convention, and the administrations of Presidents Washington and Adams.

HIST 320 - History of American Women

3 Credit(s)

This course examines the role of women in American History with special emphasis on how the story of women is told by historians over time. It examines not only the lives of many famous white women, but also the experience of women from various ethnicities and economic backgrounds. In addressing how Americans construct their understanding of women's lives in the U.S., the course will also reassess how focusing on women's lives might alter one's understanding of the broader patterns and interpretations of American History.

HIST 350 - History of Sport in America

3 Credit(s)

This course covers the development of sports and their significance in American life from colonial period to present. It is designed both to supplement student's understanding of American History and to examine the role that sports have played in shaping contemporary society. Close attention will be paid to the context of sports development, especially the economic and social environment. Topics will include a study of the role of industrial society in fostering sports, and the changing gender structure of sports.

HIST 363 - Civil War and Reconstruction

3 Credit(s)

A study of the ante-bellum South, sectional discord, armed conflict, and reconstruction of the union.

HIST 426 - US in the Era of World Wars

3 Credit(s)

A study of the diplomatic, social, and political developments of the first half of the twentieth century, with emphasis on the impact of immigration, urbanization, technology, and America's increasing involvement in world affairs through World War II.

HIST 427 - The Sixties Era

3 Credit(s)

This course is a study of U.S. history from World War II through the 1980s, with emphasis on the Cold War, the Vietnam War, and social change in the 1960s era.

POLS 429 - Constitutional Law / Criminal Justice

3 Credit(s)

This course examines Supreme Court decisions and doctrine in areas such as search and seizure, the exclusionary rule, interrogations, right to counsel, cruel and unusual punishment and other issues in criminal justice and the courts.

POLS 430 - Constitutional Law: Civil Liberties

3 Credit(s)

This course examines Supreme Court decisions and doctrine in areas such as speech, assembly, religion, privacy, press, civil rights, and election law.

Note:

Students may opt to complete the B.A. in HAPS at an accelerated pace to complete the degree in 3 years.

Students desiring this option should contact an HAPS advisor

Bachelor of Arts in HAPS, Political Science Emphasis

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

Courses Required for this Degree

Completion of Six Credits of World History

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

Completion of the Following Core Courses

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HGP 471 - Senior Seminar

3 Credit(s)

This course is designed to be the academic capstone experience for all students who have majored in History/Government. All seminar members will participate in the discussion of the assigned reading material. Each student will write a paper that reflects the student's mastery of library usage, research methodology, breadth of knowledge, and writing ability. The students will give oral presentations of their papers to the members of the Seminar. All students enrolled in the Senior Seminar will also write their Senior Comprehensive Examinations as part of the requirement for all History/Government majors. The Seminar topic will be chosen by the instructor but sufficient methodological approaches will be explored to accommodate the interests of students from either a History or Government emphasis.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

Completion of 24 Credits with at least 3 credits from each of the following 4 Subfields

Subfield 1 - Political Theory

POLS 436 - American Thought

3 Credit(s)

The interaction of religious ideas, practices, and aspirations in United States History, 1607 to Present. (Same as PHIL 436)

POLS 466 - Ancient Political Theory

3 Credit(s)

This course is of interest to history/government students who want a better understanding of ancient philosophy and its relationship to political thought.

POLS 467 - Modern Political Theory

3 Credit(s)

This course is of interest to history/government students who want a better understanding of modern philosophy and its relationship to political thought.

POLS 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

OR

POLS 479 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

Subfield 2 - American Politics

POLS 303 - Current Political Issues

3 Credit(s)

This course examines current controversial political issues such as affirmative action, same sex marriage, abortion, capital punishment, cloning, pornography, censorship, religion in public schools, and immigration.

POLS 306 - Campaigns and Elections

3 Credit(s)

This course is a study of elections and campaigns in the US. It focuses on the design and implementation of political campaigns, the behavior of different voter groups, and potential reforms of the electoral system.

POLS 351 - Congress / Presidency / Public Policy

3 Credit(s)

This course examines Congress, the legislative process, presidency, and how both influence the policy-making process, with emphasis on specific policies such as healthcare, education, crime, housing, and social welfare.

POLS 429 - Constitutional Law / Criminal Justice

3 Credit(s)

This course examines Supreme Court decisions and doctrine in areas such as search and seizure, the exclusionary rule, interrogations, right to counsel, cruel and unusual punishment and other issues in criminal justice and the courts.

POLS 430 - Constitutional Law: Civil Liberties

3 Credit(s)

This course examines Supreme Court decisions and doctrine in areas such as speech, assembly, religion, privacy, press, civil rights, and election law.

POLS 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.
OR

POLS 479 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

Subfield 3 - Comparative Politics

POLS 307 - Introduction to World Governments

3 Credit(s)

This course is specifically designed to prepare education majors for the licensing exam. It is also of interest to history/political science students who want a better understanding of institutions and systems.

POLS 309 - Politics of the Middle East

3 Credit(s)

This course explores the histories, societies and politics of various countries of the Middle East and North Africa (MENA). Specific issues we will address throughout the semester include: Islam and politics; History, political culture and institutional politics; Intra-regional conflict; Democracy and human rights; Womens issues.

POLS 325 - Political Mvmnts/Latin America

3 Credit(s)

This course broadens students' understanding of Latin America by introducing them to their political aspirations and modes of organization.

POLS 393 - Women, Politics, and Culture

3 Credit(s)

Interdisciplinary analysis of politics and culture. Course examines the role of gender in the political culture of the United States and selected societies in industrialized and developing nations. Of special interest to those wishing to pursue an interest in women's studies and/or cultural anthropology.

POLS 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

OR

POLS 479 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

Subfield 4 - World Politics

POLS 300 - Introduction to World Politics

3 Credit(s)

This course is of interest to students who want a better understanding of the international political arena. The course also helps students understand contemporary world affairs.

POLS 301 - Change Dynamics / International Relations

3 Credit(s)

This course is intended to supplement POLS 300, but can stand on its own. It introduces students to specific topics in the international arena.

POLS 380 - Model United Nations

3 Credit(s)

This course explores international diplomacy and the inner workings of the United Nations. It also provides a hands-on approach to current global debates on issues such as violent conflict, human rights and poverty.

POLS 468 - U.S.-Latin American Relations

3 Credit(s)

This course will examine U.S.-Latin American Relations from the Monroe doctrine to the Present. It will explore recent developments in U.S.-Latin American relations, particularly the growing interdependence and the impact of the end of the cold war.

POLS 480 - International Law

3 Credit(s)

This course explores the key terms and concepts of International Law, from its historical roots to present day institutions, legal cases, and controversies. Many of the key terms and concepts of International Law are the same or similar to those of the U.S. legal system, thereby helping to prepare students who wish to pursue a domestic law degree.

Prerequisite(s):

POLS 380

Co-requisite(s): POLS 380

POLS 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

OR

POLS 479 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

Note

Successful completion of Senior Assessment Procedures is required.

Students may opt to complete the B.A. in HAPS at an accelerated pace to complete the degree in 3 years. Students desiring this option should contact an HAPS advisor.

Bachelor of Arts in HAPS, Social Studies Emphasis with Secondary Teacher Licensure

Go to: Bachelor of Arts, Secondary Education Licensure

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

Complete All Core Courses (18 credits)

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

GSCI 300 - World Geography

3 Credit(s)

The course examines human or cultural geography with a global perspective. It uses a topic centered approach. It is intended to give the student an appreciation of the interaction between physical geography, environment, and cultural practices.

HGP 471 - Senior Seminar

3 Credit(s)

This course is designed to be the academic capstone experience for all students who have majored in History/Government. All seminar members will participate in the discussion of the assigned reading material. Each student will write a paper that reflects the student's mastery of library usage, research methodology, breadth of knowledge, and writing ability. The students will give oral presentations of their papers to the members of the Seminar. All students enrolled in the Senior Seminar will also write their Senior Comprehensive Examinations as part of the requirement for all History/Government majors. The Seminar topic will be chosen by the instructor but sufficient methodological approaches will be explored to accommodate the interests of students from either a History or Government emphasis.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

Complete 6 Credits of World Civilization Requirements

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

Complete 1 Social Science Course (3 Credits)

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

SOC 318 - Race, Class, and Gender

3 Credit(s)

The focus of this course is on the interrelated ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result and the dynamics of change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

Complete one Comparative Government Course (3 Credits)

POLS 307 - Introduction to World Governments

3 Credit(s)

This course is specifically designed to prepare education majors for the licensing exam. It is also of interest to history/political science students who want a better understanding of institutions and systems.

POLS 309 - Politics of the Middle East

3 Credit(s)

This course explores the histories, societies and politics of various countries of the Middle East and North Africa (MENA). Specific issues we will address throughout the semester include: Islam and politics; History, political culture and institutional politics; Intra-regional conflict; Democracy and human rights; Womens issues.

POLS 325 - Political Mvmnts/Latin America

3 Credit(s)

This course broadens students' understanding of Latin America by introducing them to their political aspirations and modes of organization.

Complete Social Studies Depth and Content Courses

15 hours of ANTH, ECON, HIST, POLS, PSYC. At least two 300-400 level HIST and POLS courses.

Note

- All students seeking social studies licensure are encouraged to seek competency in a foreign language.
- Successful Degree completion requires completion of Senior Assessment Procedures.
- Students may opt to complete the B.A. in HAPS at an accelerated pace to complete the degree in 3 years. Students desiring this option should contact an HAPS advisor.

Plus Additional Secondary Education Licensure Requirements from the School of Education

Bachelor of Arts, Secondary Education Licensure

Bachelor of Arts in Interdisciplinary Studies, Food Studies - Business, Economics, and Policy Emphasis

Go to: Food Studies Department

Food Studies Core Requirements

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BUS 105 - Introduction to Agribusiness

3 Credit(s)

An introductory course designed to provide students with a basic background in agribusiness issues and practices to give them the foundation to be successful in upper level agribusiness courses and meet expectations for basic knowledge in agribusiness relationships.

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

FOOD 100 - Perspectives on Food

3 Credit(s)

This course is an exploration of the multitude of roles that food plays in the world. Each class will consist of a discussion of food through a different lens, such as culture, history, economy, nutrition, power, medicine, and ecology. The course will be highly discussion based and students will be challenged to explore their own personal relationship with food. Grades will be determined based on class participation, weekly reading reflections, a blog-post, and a food sharing presentation in which you will explore the history, culture and personal meaning of a specific dish.

FOOD 200 - U.S. Food Systems

3 Credit(s)

This course will provide an overview of the U.S. Food System, including the policy, agricultural, and cultural history that has led us to the food system that we have today. The course will include the following topics: the role of policy in shaping the food system; the history and current state of federal governmental food and agricultural programs; food as an industry (production, processing, distribution, sales, advertising, and consumer behavior). We will explore the implication of our current system for health, communities, and the environment.

FOOD 250 - Community Food Systems

3 Credit(s)

In this course, students will study local food systems, using the San Luis Valley as a case study for a broader understanding of the role of local food systems in community vitality and health. We will explore: the pathways of food from the farm, to the distributor, to consumer, and finally as waste; inequalities in food access within communities; strategies for creating a resilient and sustainable local food system; and the major players in the local food system. Students will be provided with many examples of organizations using creative solutions to food system problems.

Prerequisite(s):

FOOD 100 Minimum Grade: C-
AND

FOOD 200 Minimum Grade: C-

FOOD 300 - Food Lab I

4 Credit(s)

This course prepares students for careers in which they will be working with food and covers basic knowledge and skills related to food safety, growing and harvesting food, procuring food, preparing food, and planning menus and educational content. We will spend time working in the Farm Park, helping with tasks and harvesting. In the classroom and kitchen, we will learn basic food preparation, seasonal and local foods, nutritional evaluation of foods, procurement, menu planning, and nutrition education.

FOOD 350 - Food Lab II

4 Credit(s)

Food lab is a hands-on upper level course for Food Studies majors to learn about food from Farm to Table. Food Lab I & II should be taken in consecutive Spring and Fall semesters, as the Food Lab I students will ideally plant a garden to

be harvested by the students in Food Lab II, the following fall. Even if not possible the courses will still be building upon each other. In Food Lab II, students in the class will work together to take care of the garden and harvest crops using sustainable practices. If this is not possible, students will still learn various skills for preparing the land for the harvesting season, taking care of plants, and learning various gardening skills through experiences working at other farms. Grades will be determined by attendance and participation, as well as a midterm reflection and a final project, paper, or exam. Students will also begin learning cooking techniques and styles, getting to practice and try food and skills from different parts of the world.

Prerequisite(s):

FOOD 300 Minimum Grade: C-

FOOD 400 - Food Studies Internship I

3 Credit(s)

This is the first internship for the Food Studies interdisciplinary degree. This course does not include regular classroom instruction, but is an internship in a food-related organization. The purpose of this internship is for the student to learn how the organization functions, its mission and principles, and to provide assistance to the organization.

Prerequisite(s):

FOOD 250 Minimum Grade: C-

FOOD 450 - Food Studies Internship II

3 Credit(s)

This is the second internship for the Food Studies interdisciplinary degree. This course does not include regular classroom instruction, but is an internship in a food-related organization. The second semester of internship must include a project for which the student has primary responsibility, to be determined by the internship advisor, in collaboration with the student. The second internship may be completed at the same organization as the first internship or with a new organization.

Prerequisite(s):

FOOD 400 Minimum Grade: C-

FOOD 498 - Food Studies Capstone

3 Credit(s)

This is the capstone course for the Food Studies interdisciplinary degree. This course includes regularly scheduled meetings with the instructor and significant independent work on a self-guided project, chosen by the student, in collaboration with their advisor.

Prerequisite(s):

FOOD 400 Minimum Grade: C-

KIN 120 - Concepts in Wellness

3 Credit(s)

In this course, students will learn about the various dimensions of wellness, assess their own health status, and design interventions to improve personal health through lecture, video, laboratory experiences, and physical activities. This

course will also provide students with the information necessary to make evidence-based decisions regarding personal wellness and to understand health disparities among diverse populations. There is a physical activity component to this course.

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

Statistics for Food Studies (choose 1 course)

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

KIN 360 - Statistics in Kinesiology

3 Credit(s)

This course is designed to introduce students to statistical theories, data collection procedures, techniques for analysis and interpretation of data in Kinesiology.

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating

statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

SOC 311 - Social Statistics

4 Credit(s)

This course presents a general overview of the statistical methods most commonly used in sociology and the social sciences. As a laboratory component, students will become proficient in SPSS, a computer program designed to aid statistical analysis. These skills will enable the student to read popular applications of statistics in the media with a critical eye; assess the use of statistics in the professional sociological literature; and use statistical tools to answer the sociological questions of interest.

Prerequisite(s):

SOC 255 Minimum Grade: C-
AND

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Business, Economics, and Policy Emphasis (15 credits)

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

OR

BUS 345 - Advertising

3 Credit(s)

Discusses the history, purposes, and regulations of the advertising industry. Topics covered include creative principles, media advantages and disadvantages, media planning, regulation of advertising, and coordination with other promotion activities.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 488 - Agricultural Policy and Farm Bill

3 Credit(s)

Development and implementation of public policy in agriculture, implications of international competition and trade, and development and interpretation of argument in policy development.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

BUS 499 - Individual Studies

1 to 5 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the department chair.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

Bachelor of Arts in Interdisciplinary Studies, Food Studies - Health, Exercise and Nutrition Emphasis

Go to: Food Studies Department

Food Studies Core Requirements

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BUS 105 - Introduction to Agribusiness

3 Credit(s)

An introductory course designed to provide students with a basic background in agribusiness issues and practices to give them the foundation to be successful in upper level agribusiness courses and meet expectations for basic knowledge in agribusiness relationships.

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

FOOD 100 - Perspectives on Food

3 Credit(s)

This course is an exploration of the multitude of roles that food plays in the world. Each class will consist of a discussion of food through a different lens, such as culture, history, economy, nutrition, power, medicine, and ecology. The course will be highly discussion based and students will be challenged to explore their own personal relationship with food. Grades will be determined based on class participation, weekly reading reflections, a blog-post, and a food sharing presentation in which you will explore the history, culture and personal meaning of a specific dish.

FOOD 200 - U.S. Food Systems

3 Credit(s)

This course will provide an overview of the U.S. Food System, including the policy, agricultural, and cultural history that has led us to the food system that we have today. The course will include the following topics: the role of policy in shaping the food system; the history and current state of federal governmental food and agricultural programs; food as an industry (production, processing, distribution, sales, advertising, and consumer behavior). We will explore the implication of our current system for health, communities, and the environment.

FOOD 250 - Community Food Systems

3 Credit(s)

In this course, students will study local food systems, using the San Luis Valley as a case study for a broader understanding of the role of local food systems in community vitality and health. We will explore: the pathways of food from the farm, to the distributor, to consumer, and finally as waste; inequalities in food access within communities; strategies for creating a resilient and sustainable local food system; and the major players in the local food system. Students will be provided with many examples of organizations using creative solutions to food system problems.

Prerequisite(s):

FOOD 100 Minimum Grade: C-
AND

FOOD 200 Minimum Grade: C-

FOOD 300 - Food Lab I**4 Credit(s)**

This course prepares students for careers in which they will be working with food and covers basic knowledge and skills related to food safety, growing and harvesting food, procuring food, preparing food, and planning menus and educational content. We will spend time working in the Farm Park, helping with tasks and harvesting. In the classroom and kitchen, we will learn basic food preparation, seasonal and local foods, nutritional evaluation of foods, procurement, menu planning, and nutrition education.

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Prerequisite(s):

FOOD 300 Minimum Grade: C-

FOOD 400 - Food Studies Internship I**3 Credit(s)**

This is the first internship for the Food Studies interdisciplinary degree. This course does not include regular classroom instruction, but is an internship in a food-related organization. The purpose of this internship is for the student to learn how the organization functions, its mission and principles, and to provide assistance to the organization.

Prerequisite(s):

FOOD 250 Minimum Grade: C-

FOOD 450 - Food Studies Internship II**3 Credit(s)**

This is the second internship for the Food Studies interdisciplinary degree. This course does not include regular classroom instruction, but is an internship in a food-related organization. The second semester of internship must include a project for which the student has primary responsibility, to be determined by the internship advisor, in collaboration with the student. The second internship may be completed at the same organization as the first internship

or with a new organization.

Prerequisite(s):

FOOD 400 Minimum Grade: C-

FOOD 498 - Food Studies Capstone

3 Credit(s)

This is the capstone course for the Food Studies interdisciplinary degree. This course includes regularly scheduled meetings with the instructor and significant independent work on a self-guided project, chosen by the student, in collaboration with their advisor.

Prerequisite(s):

FOOD 400 Minimum Grade: C-

KIN 120 - Concepts in Wellness

3 Credit(s)

In this course, students will learn about the various dimensions of wellness, assess their own health status, and design interventions to improve personal health through lecture, video, laboratory experiences, and physical activities. This course will also provide students with the information necessary to make evidence-based decisions regarding personal wellness and to understand health disparities among diverse populations. There is a physical activity component to this course.

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

Statistics for Food Studies (choose 1 course)

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
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MATH 106 Minimum Grade: C- OR T

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MATH 107 Minimum Grade: C- OR T

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MATH 120 Minimum Grade: C- OR T

KIN 360 - Statistics in Kinesiology

3 Credit(s)

This course is designed to introduce students to statistical theories, data collection procedures, techniques for analysis and interpretation of data in Kinesiology.

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

SOC 311 - Social Statistics

4 Credit(s)

This course presents a general overview of the statistical methods most commonly used in sociology and the social sciences. As a laboratory component, students will become proficient in SPSS, a computer program designed to aid statistical analysis. These skills will enable the student to read popular applications of statistics in the media with a critical eye; assess the use of statistics in the professional sociological literature; and use statistical tools to answer the sociological questions of interest.

Prerequisite(s):

SOC 255 Minimum Grade: C-

AND

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Health, Exercise and Nutrition Emphasis

BIOL 112 - Human Anatomy

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure of the human body. Typically taken by HPPE students. Topics include gross anatomy, histology, the relationship between structure and function, and anatomical changes associated with disease processes. Course includes three hours of lecture and two hours of laboratory per week.

OR

BIOL 205 - Human Anatomy and Physiology I

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The integumentary, skeletal, muscular, and nervous systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Test - Minimum Score: 3 **OR** MATH 97 Minimum Grade: S or S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T and SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18 **OR** ENG 96 Minimum Grade: S or T

KIN 301 - Sport and Fitness Nutrition

3 Credit(s)

This course will present a review of basic nutrition. The course will also explore the areas of sport, exercise and fitness nutrition, supplementation, sport drug use and abuse, weight loss diets, eating disorders, weight gain nutrition, body composition, and the metabolic nutritional requirements of various sports and fitness activities.

Prerequisite(s):

KIN-329 Minimum Grade: C- OR T
AND

BIOL-112 Minimum Grade: C- OR T

OR

BIOL-205 Minimum Grade: C- OR T

KIN 302 - Sport Psychology

3 Credit(s)

Sport psychology is primarily concerned with the interaction between psychological variables and participation in sport and exercise. This course will review this interaction by addressing variables that affect the individual athlete, influence sport and exercise environments, shape group processes, enhance health and wellbeing, improve performance, and facilitate psychological growth and development in sport participants from diverse populations.

OR

KIN 427 - Coaching Tech Strength / Conditioning

3 Credit(s)

This course is designed to provide information relative to the basic foundation of coaching sports conditioning including muscle physiology, bioenergetics, training methodology, exercise technique, program design, and facility management. Students will be given the opportunity to develop a general strength coaching philosophy and to demonstrate their knowledge relative to proper lifting techniques demonstrate their knowledge relative to proper lifting and training procedures.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T

KIN 329 - Exercise Physiology

3 Credit(s)

This course presents an introduction and overview of the physiological bases of physical education, sport, and athletics. The effects of exercise on the various systems will be considered. Practical application of exercise science to physical fitness and athletic performance will be emphasized.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

Co-requisite(s): KIN-329L

KIN 329L - Exercise Physiology Lab

1 Credit(s)

This exercise physiology lab class is designed to supplement the exercise physiology lecture course. This course will provide students with a hands-on experience in which they can apply concepts learned in the classroom to practice in the human performance laboratory and field of exercise, fitness, and sport.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

Co-requisite(s): KIN-329

KIN 380 - Diversity, Equity Sport, and Society

3 Credit(s)

This course has a two-fold purpose: first, it is designed to provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask questions and think critically about sport as a part of society. This course will explore issues around diversity, equity and inclusion in sport and society.

**Bachelor of Arts in Interdisciplinary Studies, Food Studies -
Sociology and Social Justice Emphasis**

Go to: Food Studies Department

Food Studies Core Requirements

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

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3 Credit(s)

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3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

FOOD 100 - Perspectives on Food

3 Credit(s)

This course is an exploration of the multitude of roles that food plays in the world. Each class will consist of a discussion of food through a different lens, such as culture, history, economy, nutrition, power, medicine, and ecology. The course will be highly discussion based and students will be challenged to explore their own personal relationship with food. Grades will be determined based on class participation, weekly reading reflections, a blog-post, and a food sharing presentation in which you will explore the history, culture and personal meaning of a specific dish.

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3 Credit(s)

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Prerequisite(s):

FOOD 100 Minimum Grade: C-
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4 Credit(s)

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Prerequisite(s):

FOOD 300 Minimum Grade: C-

FOOD 400 - Food Studies Internship I

3 Credit(s)

This is the first internship for the Food Studies interdisciplinary degree. This course does not include regular classroom instruction, but is an internship in a food-related organization. The purpose of this internship is for the student to learn

how the organization functions, its mission and principles, and to provide assistance to the organization.

Prerequisite(s):

FOOD 250 Minimum Grade: C-

FOOD 450 - Food Studies Internship II

3 Credit(s)

This is the second internship for the Food Studies interdisciplinary degree. This course does not include regular classroom instruction, but is an internship in a food-related organization. The second semester of internship must include a project for which the student has primary responsibility, to be determined by the internship advisor, in collaboration with the student. The second internship may be completed at the same organization as the first internship or with a new organization.

Prerequisite(s):

FOOD 400 Minimum Grade: C-

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3 Credit(s)

This is the capstone course for the Food Studies interdisciplinary degree. This course includes regularly scheduled meetings with the instructor and significant independent work on a self-guided project, chosen by the student, in collaboration with their advisor.

Prerequisite(s):

FOOD 400 Minimum Grade: C-

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3 Credit(s)

In this course, students will learn about the various dimensions of wellness, assess their own health status, and design interventions to improve personal health through lecture, video, laboratory experiences, and physical activities. This course will also provide students with the information necessary to make evidence-based decisions regarding personal wellness and to understand health disparities among diverse populations. There is a physical activity component to this course.

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3 Credit(s)

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SOC 201 Minimum Grade: C- OR T

Statistics for Food Studies (choose 1 course)

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3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

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MATH 104 Minimum Grade: C- OR T
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MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

KIN 360 - Statistics in Kinesiology

3 Credit(s)

This course is designed to introduce students to statistical theories, data collection procedures, techniques for analysis and interpretation of data in Kinesiology.

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3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

SOC 311 - Social Statistics

4 Credit(s)

This course presents a general overview of the statistical methods most commonly used in sociology and the social sciences. As a laboratory component, students will become proficient in SPSS, a computer program designed to aid statistical analysis. These skills will enable the student to read popular applications of statistics in the media with a critical eye; assess the use of statistics in the professional sociological literature; and use statistical tools to answer the sociological questions of interest.

Prerequisite(s):

SOC 255 Minimum Grade: C-

AND

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Sociology and Social Justice Emphasis

SOC 251 - Social Problems

3 Credit(s)

This course is designed to provide the student with a survey of selected contemporary social problems. Social problems addressed in the class may include poverty, addiction and substance abuse, mental health, violence with a focus on family violence, crime, teen sexuality and pregnancy, and health care issues. The causes, severity, and consequences of the selected social problems are explored. In addition, strategies for alleviating social problems are presented.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

AND

LS 225 Minimum Grade: C- OR T

SOC 352 - Social Work Practices

3 Credit(s)

This course is an introduction to the nuts-and-bolts of social work practice. The course is designed with several general objectives in mind: (1) to familiarize the student with specific techniques of social work such as the person-in-environment approach and case management, (2) to provide a fundamental understanding of roles of community and family in social work practice, (3) to explore the needs of selected special populations in the community, (4) to identify

the biological, psychological, and social influences on development and behavior across the life cycle, and (5) to introduce the student to fundamental social work practice skills.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

AND

SOC 251 Minimum Grade: C- OR T

SOC 365 - Race and Ethnicity in the U.S.

3 Credit(s)

This course provides a sociological approach to race and ethnic relations in the U.S. today. This course introduces the basic sociological theories and perspectives related to the study of race and ethnicity, the histories, and present status of different racial and ethnic groups in the United States and raises questions about continuing racial discrimination and inequality in our society. Issues of defining race, racial identity, interpersonal and institutional discrimination, segregation, and affirmative action (among others) are explored.

SOC 370 - Poverty and Wealth

3 Credit(s)

This course examines the historical and socio-cultural factors which influence the creation and maintenance of poverty and wealth. Emphasis will be on structural factors and theoretical explanations of poverty and inequality. This course will also focus on the implications for policy and social programs aimed at poverty and other social class issues. In addition, there will be exploration of systems of power, privilege, and domination that are central to the American social structure. Finally, the issues of empowerment, resistance, and solutions to social inequality will be assessed.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

AND

SOC 251 Minimum Grade: C- OR T

SOC 470 - Social and Public Programs

3 Credit(s)

This course analyzes the historical development, current content, and adequacy of social welfare policies in the United States. Specific policy areas to be discussed include income maintenance (including social insurance and public assistance), mental health, health care, and aging.

Prerequisite(s):

SOC 352 Minimum Grade: C- OR T

Bachelor of Arts in Interdisciplinary Studies, Food Studies - Sustainability Emphasis

Go to: Food Studies Department

Food Studies Core Requirements

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BUS 105 - Introduction to Agribusiness

3 Credit(s)

An introductory course designed to provide students with a basic background in agribusiness issues and practices to give them the foundation to be successful in upper level agribusiness courses and meet expectations for basic knowledge in agribusiness relationships.

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

FOOD 100 - Perspectives on Food

3 Credit(s)

This course is an exploration of the multitude of roles that food plays in the world. Each class will consist of a discussion of food through a different lens, such as culture, history, economy, nutrition, power, medicine, and ecology. The course will be highly discussion based and students will be challenged to explore their own personal relationship with food. Grades will be determined based on class participation, weekly reading reflections, a blog-post, and a food sharing presentation in which you will explore the history, culture and personal meaning of a specific dish.

FOOD 200 - U.S. Food Systems

3 Credit(s)

This course will provide an overview of the U.S. Food System, including the policy, agricultural, and cultural history that has led us to the food system that we have today. The course will include the following topics: the role of policy in shaping the food system; the history and current state of federal governmental food and agricultural programs; food as an industry (production, processing, distribution, sales, advertising, and consumer behavior). We will explore the implication of our current system for health, communities, and the environment.

FOOD 250 - Community Food Systems

3 Credit(s)

In this course, students will study local food systems, using the San Luis Valley as a case study for a broader understanding of the role of local food systems in community vitality and health. We will explore: the pathways of food from the farm, to the distributor, to consumer, and finally as waste; inequalities in food access within communities; strategies for creating a resilient and sustainable local food system; and the major players in the local food system. Students will be provided with many examples of organizations using creative solutions to food system problems.

Prerequisite(s):

FOOD 100 Minimum Grade: C-
AND

FOOD 200 Minimum Grade: C-

FOOD 300 - Food Lab I

4 Credit(s)

This course prepares students for careers in which they will be working with food and covers basic knowledge and skills related to food safety, growing and harvesting food, procuring food, preparing food, and planning menus and educational content. We will spend time working in the Farm Park, helping with tasks and harvesting. In the classroom and kitchen, we will learn basic food preparation, seasonal and local foods, nutritional evaluation of foods, procurement, menu planning, and nutrition education.

FOOD 350 - Food Lab II

4 Credit(s)

Food lab is a hands-on upper level course for Food Studies majors to learn about food from Farm to Table. Food Lab I & II should be taken in consecutive Spring and Fall semesters, as the Food Lab I students will ideally plant a garden to be harvested by the students in Food Lab II, the following fall. Even if not possible the courses will still be building upon each other. In Food Lab II, students in the class will work together to take care of the garden and harvest crops

using sustainable practices. If this is not possible, students will still learn various skills for preparing the land for the harvesting season, taking care of plants, and learning various gardening skills through experiences working at other farms. Grades will be determined by attendance and participation, as well as a midterm reflection and a final project, paper, or exam. Students will also begin learning cooking techniques and styles, getting to practice and try food and skills from different parts of the world.

Prerequisite(s):

FOOD 300 Minimum Grade: C-

FOOD 400 - Food Studies Internship I

3 Credit(s)

This is the first internship for the Food Studies interdisciplinary degree. This course does not include regular classroom instruction, but is an internship in a food-related organization. The purpose of this internship is for the student to learn how the organization functions, its mission and principles, and to provide assistance to the organization.

Prerequisite(s):

FOOD 250 Minimum Grade: C-

FOOD 450 - Food Studies Internship II

3 Credit(s)

This is the second internship for the Food Studies interdisciplinary degree. This course does not include regular classroom instruction, but is an internship in a food-related organization. The second semester of internship must include a project for which the student has primary responsibility, to be determined by the internship advisor, in collaboration with the student. The second internship may be completed at the same organization as the first internship or with a new organization.

Prerequisite(s):

FOOD 400 Minimum Grade: C-

FOOD 498 - Food Studies Capstone

3 Credit(s)

This is the capstone course for the Food Studies interdisciplinary degree. This course includes regularly scheduled meetings with the instructor and significant independent work on a self-guided project, chosen by the student, in collaboration with their advisor.

Prerequisite(s):

FOOD 400 Minimum Grade: C-

KIN 120 - Concepts in Wellness

3 Credit(s)

In this course, students will learn about the various dimensions of wellness, assess their own health status, and design interventions to improve personal health through lecture, video, laboratory experiences, and physical activities. This course will also provide students with the information necessary to make evidence-based decisions regarding personal

wellness and to understand health disparities among diverse populations. There is a physical activity component to this course.

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

Statistics for Food Studies (choose 1 course)

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

KIN 360 - Statistics in Kinesiology

3 Credit(s)

This course is designed to introduce students to statistical theories, data collection procedures, techniques for analysis and interpretation of data in Kinesiology.

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software

utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

SOC 311 - Social Statistics

4 Credit(s)

This course presents a general overview of the statistical methods most commonly used in sociology and the social sciences. As a laboratory component, students will become proficient in SPSS, a computer program designed to aid statistical analysis. These skills will enable the student to read popular applications of statistics in the media with a critical eye; assess the use of statistics in the professional sociological literature; and use statistical tools to answer the sociological questions of interest.

Prerequisite(s):

SOC 255 Minimum Grade: C-
AND

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Sustainability Emphasis (15 credits)

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T
AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

WATR 101 - Water Essentials: How Water Works

3 Credit(s)

This course is an introduction and overview of water in the West, from its basic chemical structure and physics as well as hydrology and water's role in nature to how water serves and is managed as a beneficial resource for people. This course introduces foundational concepts of water's functional properties, how humans have put water to work and how we have developed systems of water allocation, administration, and management, including an overview of core terminology, and fundamental principles of water management. The course will focus on the Western water environment and issues, with specific discussions on the application and administration of water in Colorado's Rio Grande Basin.

BIOL Elective OR WTR Elective with Approval

Plus a BIOL Elective OR WTR Elective with Approval

Bachelor of Arts in Interdisciplinary Studies, General Agriculture - Biology Emphasis

Go to: Interdisciplinary Studies

This degree is delivered in partnership with Colorado State University. Students will enroll in both ASU face to face classes and CSU online or hybrid courses. Upon successful completion of the degree program, students will have a well-built foundation not only in general education but also in a General Agriculture Biology Track.

Go to: General Agriculture Business Track

Faculty

Benita Brink, Ph.D.

Major Requirements (52-54 credits)

***Colorado State University Online Courses**

- HORT 100 - Horticultural Science **3 to 4 Credit(s) ***
OR
- SOCR 100 - General Crops **3 to 4 Credit(s) ***

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

- BSPM 201 - Weed Management and Control **3 Credit(s) ***

GSCI 201 - Introduction to Cartography and GIS

3 Credit(s)

This course will introduce students to the core concepts of Geographic Information Systems (GIS) and the importance and relevance of GIS in today's world. Students will learn what GIS is, what it is used for, and how to perform basic and core tasks involving GIS analysis. An objective is to help students develop the ability to think critically about cartographic processes and representations as well as develop their skills in creating maps. Students are expected to have basic computer proficiency prior to enrolling in this course.

OR

- SOCR 377 - GIS Systems in Agriculture **3 Credit(s) ***

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T

OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

- SOCR 240 - Soil Science **4 Credit(s) ***

OR

GSCI 330 - Nature and Properties of Soils

4 Credit(s)

This course analyzes soils as natural bodies and managed resources, focusing on impacts of landforms, hydrology, nutrients, and organisms on soils. The laboratory includes analysis of soil patterns, methods of sampling, and techniques of determining physical and chemical properties of soils. Course includes three hours of lecture and two hours of laboratory per week.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

- HORT 260 - Plant Propagation **4 Credit(s) ***
- HORT 310 - Greenhouse Management **3 Credit(s) ***

CHEM 321 - Organic Chemistry

4 Credit(s)

A study of the relationship between structure and reactivity of carbon-containing compounds.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 321L

CHEM 321L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 321. Laboratory time will be divided among techniques, preparation, and mechanistic studies.

Co-requisite(s): CHEM 321

- SOCR 350 - Soil Fertility & Management **4 Credit(s) ***
- SOCR 351 - Lab **4 Credit(s) ***

- BSPM 355A - Horticulture Pathology: General Pathology 3 Credit(s) **AND ***
- BSPM 355B - Horticulture Pathology: Turf & Ornamental Disease 3 Credit(s) **AND ***
- BSPM 355C - Horticulture Pathology: Vegetable & Greenhouse Disease **3 Credit(s) ***
- OR**
- BSPM 361 - Elements of Plant Pathology **3 Credit(s) ***

- HORT 368 - Landscape Irrigation & Water Conservation **2 to 3 Credit(s) ***
- OR**

- SOCR 370 - Irrigation Principles **2 to 3 Credit(s) ***
- SOCR 420 - Crop & Soil Management Systems I **31 Credit(s) AND ***
- SOCR 421 - Crop & Soil Management Systems II **31 Credit(s) ***
OR
- HORT 454 - Horticulture Crop Production & Management (Capstone) **1 Credit(s) ***

Biology Track Requirements

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

BIOL 321 - Genetics

3 Credit(s)

A study of Mendelian and molecular genetics of eukaryotes and prokaryotes. Discussions include basic Mendelian

principles, meiosis/mitosis, linkage, gene expression, and molecular techniques. Course includes 3 hours of lecture and 1 hour of peer learning activities per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

OR

CHEM-132 Minimum Grade: C- OR T

AND

CHEM-132L Minimum Grade: C- OR T

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T
AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

BIOL 332 - Evolution

3 Credit(s)

A study of the history and development of evolutionary theory. Consideration is given to evidence for and mechanisms of evolution from anatomical, developmental, geological, mathematical, and molecular perspectives. Credit or concurrent registration in BIOL 330 is recommended. This course includes 3 hours of lecture per week.

Prerequisite(s):

BIOL 209 Minimum Grade: C- OR T

AND

BIOL 210 Minimum Grade: C- OR T

BIOL 423 - Plant Physiology

4 Credit(s)

A study of the mechanisms of plant function throughout development from seeds through reproduction. This course includes consideration of metabolism (photosynthesis, respiration, mineral nutrition), water relations, gas exchange, and developmental growth in response to hormones. An integrated laboratory component requires an independently researched project. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 461 - Entomology

3 Credit(s)

Biology of insects with emphasis on anatomy, physiology, natural history, evolution, life cycles, and identification of

major groups. This course included two hours of lecture and two hours of lab per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

Plus Electives (9-11 credits)

0-7 credits MUST be upper division credits depending on choices made within the major requirements

Bachelor of Arts in Interdisciplinary Studies, General Agriculture - Business Emphasis

Go to: Interdisciplinary Studies

This degree is delivered in partnership with Colorado State University. Students will enroll in both ASU face to face classes and CSU online or hybrid courses. Upon successful completion of the degree program, students will have a well-built foundation not only in general education but also in a general Agriculture Business Track.

Go to: General Agriculture Biology Track

Faculty

Zena Buser, Ph.D.

Major Requirements (52-54 credits)

***Colorado State University Online Courses**

- HORT 100 - Horticultural Science **3 to 4 Credit(s) ***
OR
- SOCR 100 - General Crops **3 to 4 Credit(s) ***

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

- BSPM 201 - Weed Management & Control **3 Credit(s) ***

GSCI 201 - Introduction to Cartography and GIS

3 Credit(s)

This course will introduce students to the core concepts of Geographic Information Systems (GIS) and the importance and relevance of GIS in today's world. Students will learn what GIS is, what it is used for, and how to perform basic and core tasks involving GIS analysis. An objective is to help students develop the ability to think critically about cartographic processes and representations as well as develop their skills in creating maps. Students are expected to have basic computer proficiency prior to enrolling in this course.

OR

- SOCR 377 - GIS Systems in Agriculture **3 Credit(s) ***

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T

OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

- * HORT 260 - Plant Propagation **4 Credit(s) ***
 - * HORT 310 - Greenhouse Management **3 Credit(s) ***

 - BSPM 355A - Horticulture Pathology: General Pathology **3 Credit(s) * AND**
 - BSPM 355B - Horticulture Pathology: Turf & Ornamental Disease **3 Credit(s) * AND**
 - BSPM 355C - Horticulture Pathology: Vegetable & Greenhouse Disease **3 Credit(s) * AND**
- OR**

- BSPM 361 - Elements of Plant Pathology **3 Credit(s) ***
- HORT 368 - Landscape Irrigation & Water Conservation **3 Credit(s) ***
OR
- SOCR 370 - Irrigation Principles **2 to 3 Credit(s) ***
- SOCR 420 - Crop & Soil Management Systems I **1 Credit(s) AND ***
- SOCR 421 - Crop & Soil Management Systems II **1 Credit(s) ***
OR
- HORT 454 - Horticulture Crop Production & Management (Capstone) **1 Credit(s) ***

Business Track Requirements (24 credits)

BUS 105 - Introduction to Agribusiness

3 Credit(s)

An introductory course designed to provide students with a basic background in agribusiness issues and practices to give them the foundation to be successful in upper level agribusiness courses and meet expectations for basic knowledge in agribusiness relationships.

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 364 - Agribusiness Management

3 Credit(s)

Management issues of agricultural businesses such as the forms of ownership, financial statements, analysis, and planning, investment analysis, strategic marketing, management of organizations, and human resources management.

Prerequisite(s):

BUS 105 Minimum Grade: C- OR T
AND

BUS 207 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

BUS 384 - Natural Resources/Water Law

3 Credit(s)

The goal of this course is to provide students with knowledge of the regulatory responsibilities related to agriculture production and operations with respect to natural resources and water. The course will cover federal, state, and local requirements as well as application to agribusiness endeavors.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 211 Minimum Grade: C- OR T

BUS 398 - Farm and Ranch Management

3 Credit(s)

The application of economic and business principles to the management and operation of farms and ranches for decision making purposes.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 207 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

Electives (14-15 credits)

1-7 credits MUST be upper division credits depending on choices within the major requirements.

Bachelor of Arts in Interdisciplinary Studies, Individualized program of study

Go to: [Interdisciplinary Studies](#)

Students design a degree program that intentionally combines coursework from two different disciplines.

The Bachelor of Arts in Interdisciplinary Studies degree allows students to design a program of study combining two subject areas. No more than 30 credits of coursework with the same prefix can be used to satisfy the combined 40 credits (20 + 20) needed for the emphasis areas (e.g. no more than 30 BUS credits, no more than 30 HIST credits, no more than 30 CHEM credits, etc. can be applied toward the emphases).

Area I (20 Credit Hours)

Area II (20 Credit Hours)

Requirements

- Courses applied toward the Undergraduate General Education Requirements cannot also be used for credit in an emphasis area.
- At least 15 of the required 42 upper-division hours must fall within the (combined) emphasis areas.
- Courses associated with emphasis areas must be completed with a grade of 'C-' or higher.
- At least 12 of the 40 credit hours associated with the emphasis areas must be Adams State University courses.
- At least 30 credit hours (of the required 120) must be Adams State University courses.

Bachelor of Arts in Liberal Arts, Studio Art

Go to: Art

This degree offers you the opportunity to explore several different mediums and discipline areas that will challenge your creative thinking and problem-solving skills. Our program prepares you for a wide variety of creative career tracks which can be complemented by a minor in Theatre or another field.

Specific Courses Required for This Degree

A. Required Studio Core (18 Credits)

Students may be excused from basic studio courses on the merit of a portfolio (art studio) by the department chair.

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

AR 252 - Beginning 3D - Form and Extended Media

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills

related to fabrication and subtractive processes and materials. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in introductory metal fabrication, CAD/CAM technology, metal casting, and wood or stone carving. This course has a course specific fee to cover the costs of some materials.

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

AR 498 - Professional Practice

3 Credit(s)

Designed to be the capstone experience for all students who have majored in Art. Students will organize a group exhibition of their work and prepare portfolios and other tools for professional futures. Emphasis will be placed on responsible teamwork and professionalism.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

B. Required Art History & Theory Core (12 Credits)

AR 105 - Introduction to Art Criticism

3 Credit(s)

This course introduces students to art criticism and critical thinking in the field of visual art. Exercises in reading about art, observing art, and talking and writing about art, will develop the student's ability to discuss their own work and a wide variety of artworks by others. Students will be introduced to and practice techniques for reading, thinking, writing, and speaking critically as applied to art.

AR 305 - Art Theory

3 Credit(s)

A lecture course that covers major themes in art theory and asks students to articulate which aspects of art theory relate to their studio work and how they relate.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AND

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

AR 364 - History of Art I

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms prehistoric times to the Eighteenth Century.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 365 - History of Art II

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms from the 18th Century to the 21st Century. Additionally this course includes a brief survey of the arts of African, Asian, and Native American cultures.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

C. Plus 6 Hours from the Following (2D Electives)

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR 320 - Intermediate Painting I

3 Credit(s)

Intermediate study of painting media with emphasis on perceptual abilities and personal expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- or T
AND

AR 220 Minimum Grade: C- or T

D. Plus 6 Hours from the Following (3D Electives)

- AR 3XX - 3D Material Studies Rotator

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it

applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing

3 Credit(s)

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

E. Plus 3 Hours from the Following

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 306 - Illustrator

3 Credit(s)

This course is an advanced design class. Using Adobe Illustrator, students will study design concepts related to computer graphics, illustration, and typography as well as historical traditions in graphic design.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

AR 310 - Photoshop

3 Credit(s)

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

F. Complete One or More 12-hour Area of Emphasis in One of the Following Areas

- Art History
- Drawing
- Painting
- Graphic Design
- Photography
- Form and Extended Media

G. Completion of Departmental Assessment Procedures

Additional credits in the major are to be selected in consultation with your advisor.

Bachelor of Arts in Mathematics

Go to: Mathematics

Required Mathematics Core (22 credits)

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

MATH 220 - Calculus III

4 Credit(s)

This course is an introduction to the calculus of functions of several variables. Typical topics include three-dimensional analytic geometry, vectors, parametric curves and surfaces, arc length and curvature, limits, continuity, partial derivatives, gradients, directional derivatives, tangent planes, multiple integrals, vector fields, line and surface integrals, Green's theorem, Stokes' Theorem, and the divergence theorem.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 250 - Introduction to Mathematical Thought

3 Credit(s)

This course looks at topics central to further study in mathematics. These include symbolic logic, especially as it applies to mathematical proof; methods of mathematical proof such as direct proof, indirect proof, and by induction; use and meaning of mathematical quantifiers and predicates; sets; relations; equivalence relations and partitions; order relations; and functions and their properties.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

MATH 321 - Linear Algebra

3 Credit(s)

An introduction to linear algebra. Typical topics include solutions of systems of linear equations, matrix algebra, determinants, vector spaces, linear independence, span, basis, dimension, coordinates, linear transformations, matrix representations of linear transformations, eigenvalues, eigenvectors, diagonalization, Gram-Schmidt orthonormalization projection, and applications.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 471 - Senior Capstone I

1 Credit(s)

First-semester of a capstone course intended for senior mathematics majors. In this course students will begin the development of a project to be conducted under the guidance of a faculty advisor from the department. In addition, the course will focus on written and oral communication of technical material appropriate to the disciplines of mathematics, computer science, and physics.

Prerequisite(s):

Senior Standing

MATH 472 - Senior Capstone II

1 Credit(s)

Second-semester of a capstone course intended for senior mathematics majors. In this course students will continue the development of an independent project, begun in MATH 471, and conducted under the guidance of a faculty advisor from the department. In addition, the course will focus on written and oral communication of technical material appropriate to the disciplines of mathematics, computer science, and physics.

Prerequisite(s):

MATH 471 Minimum Grade: C- OR T

Minimum of 3 Credits in Pure Mathematics Is Required

MATH 322 - Algebraic Structures I

3 Credit(s)

An introduction to the theory of groups. Typical topics include sets, mappings, binary operations, equivalence relations, partitions, the integers, induction, the well-ordering property, elementary number theory, cryptography, coding theory, groups (permutation groups, symmetry groups, matrix groups, and cyclic groups), subgroups, cosets, Lagrange's theorem, normal subgroups, homomorphisms, isomorphisms, Cayley's theorem, and isomorphism theorems.

Prerequisite(s):

MATH 250 Minimum Grade: C- OR T
AND

MATH 321 Minimum Grade: C- OR T

MATH 331 - Modern Geometry

3 Credit(s)

An introduction to plane geometry intended for future teachers of mathematics. Typical topics include deductive reasoning and the axiomatic method, Euclidean geometry, parallelism, hyperbolic and other non-Euclidean geometries.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T
AND

MATH 250 Minimum Grade: C- OR T

MATH 420 - Advanced Analysis I

3 Credit(s)

Rigorous presentation of the fundamental concepts and techniques of real analysis, including a careful study of continuity and convergence, sets and functions, sequences and series, limits and continuity, and differentiation.

Prerequisite(s):

MATH 220 Minimum Grade: C- OR T
AND

MATH 250 Minimum Grade: C- OR T

MATH 430 - Complex Analysis

3 Credit(s)

Theory of functions of one complex variable, including derivatives, integrals, power series, residues, and conformal mappings.

Prerequisite(s):

MATH 220 Minimum Grade: C- OR T

MATH 440 - Topology

3 Credit(s)

This course is an introduction to the theory of point-set topology. The main components of the course will be topological spaces, including product and quotient spaces, continuous functions, local and global connectedness, local and global compactness, countability, separability, and the Tychonoff axioms. The culmination of the course will be in the Tietze extension theorem, Uryson's Lemma, and Uryson's Metrization theorem. Further study into Tychonoff axioms and spaces and the Tychonoff theorem will be done, time permitting.

Prerequisite(s):

MATH 250 Minimum Grade: C- OR T

Minimum of 3 Credits in Applied Mathematics Is Required

MATH 327 - Differential Equations

3 Credit(s)

An introduction to the study and application of ordinary differential equations. Typical topics include first order differential equations, linear differential equations, systems of equations, existence and uniqueness of solutions, bifurcations, the Laplace transform, matrix methods, and stability theorems.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 330 - Numerical Analysis

3 Credit(s)

Numerical methods for the solution of mathematical problems and computer application of those methods. Typical topics include the bisection algorithm, fixed point iteration, interpolation, polynomial approximation, numerical differentiation and integration, solution of systems of linear equations, least squares approximation, and error analysis.

Prerequisite(s):

MATH 121 Minimum Grade: C- or T
AND

CSCI 202 Minimum Grade: C- or T

OR

CSCI 205 Minimum Grade: C- or T

MATH 340 - Probability and Statistics

3 Credit(s)

A mathematically oriented introductory course in probability and statistics. Typical topics include counting techniques and laws of probability, independence, discrete and continuous random variable, distributions (normal, t, chi, square, F, Poisson, exponential, and sampling), regression correlation, confidence intervals and hypothesis testing, mathematical expectation, moment generating functions, the Central Limit Theorem, and point estimation.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

15 Additional Credits (Distinct from Previous)

CSCI 224 - Discrete Concepts

4 Credit(s)

A course on the fundamentals of discrete (as opposed to continuous) processes. The course is a foundational course for students pursuing the B.S. Mathematical Sciences Computer Science degree. The course covers a variety of discrete mathematical topics required for a solid background in computer science, including mathematical logic, set theory, induction, algorithmic complexity, combinatorics, discrete probability, basic graph theory, relations, Boolean algebra, finite state automata, and basic theory of computation.

Prerequisite(s):

Math Placement Test - Minimum Score: 5

OR

MATH 106 Minimum Grade: C- OR T

AND

CSCI 205 Minimum Grade: C- OR T

MATH 230 - Excursions in Mathematics

3 Credit(s)

A quantitative and qualitative exploration of some of the great ideas and methods of mathematics. The main focus is on critical thinking and problem solving, as well as mathematical communication. Topics covered include infinity, logic, probability, statistics, Fibonacci numbers, the golden ratio, topology, non-Euclidean geometry, graphs, Pascal's triangle, tiling, fractals, voting theory chaos, and higher dimensions.

Prerequisite(s):

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

MATH 322 - Algebraic Structures I

3 Credit(s)

An introduction to the theory of groups. Typical topics include sets, mappings, binary operations, equivalence relations, partitions, the integers, induction, the well-ordering property, elementary number theory, cryptography, coding theory, groups (permutation groups, symmetry groups, matrix groups, and cyclic groups), subgroups, cosets, Lagrange's theorem, normal subgroups, homomorphisms, isomorphisms, Cayley's theorem, and isomorphism theorems.

Prerequisite(s):

MATH 250 Minimum Grade: C- OR T

AND

MATH 321 Minimum Grade: C- OR T

MATH 323 - Algebraic Structures II

3 Credit(s)

An introduction to the theory of rings and fields. Typical topics include rings, ideals, integral domains, fields, ring homomorphisms, quotient rings, polynomial rings, division algorithms, factorization of polynomials, extensions of fields, finite fields, and Galois theory.

Prerequisite(s):

MATH 322 Minimum Grade: C- OR T

MATH 327 - Differential Equations

3 Credit(s)

An introduction to the study and application of ordinary differential equations. Typical topics include first order differential equations, linear differential equations, systems of equations, existence and uniqueness of solutions, bifurcations, the Laplace transform, matrix methods, and stability theorems.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 330 - Numerical Analysis

3 Credit(s)

Numerical methods for the solution of mathematical problems and computer application of those methods. Typical topics include the bisection algorithm, fixed point iteration, interpolation, polynomial approximation, numerical differentiation and integration, solution of systems of linear equations, least squares approximation, and error analysis.

Prerequisite(s):

MATH 121 Minimum Grade: C- or T

AND

CSCI 202 Minimum Grade: C- or T

OR

CSCI 205 Minimum Grade: C- or T

MATH 331 - Modern Geometry

3 Credit(s)

An introduction to plane geometry intended for future teachers of mathematics. Typical topics include deductive reasoning and the axiomatic method, Euclidean geometry, parallelism, hyperbolic and other non-Euclidean geometries.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T
AND

MATH 250 Minimum Grade: C- OR T

MATH 335 - History of Mathematics**3 Credit(s)**

This course traces the historical development of mathematics from ancient to modern times, placing mathematical facts into a meaningful intellectual and historical context. Typical topics include mathematics in early civilization such as Egypt and Babylonia; early Greek mathematics from Euclid to Archimedes; the work of Diophantus; mathematics in medieval Islam and its transmission to the Latin West; the early development of algebra; the analytic geometry of Descartes and Fermat; the development of the calculus at the hands of Newton and Leibniz; the contributions of the Bernoulli family; nineteenth-century analysis from Cauchy to Weierstrass; nineteenth-century algebra from Galois through Klein; the development of non-Euclidean geometry; and Cantor's development in set theory.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 340 - Probability and Statistics**3 Credit(s)**

A mathematically oriented introductory course in probability and statistics. Typical topics include counting techniques and laws of probability, independence, discrete and continuous random variable, distributions (normal, t, chi, square, F, Poisson, exponential, and sampling), regression correlation, confidence intervals and hypothesis testing, mathematical expectation, moment generating functions, the Central Limit Theorem, and point estimation.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 379 - Special Topics**1 to 5 Credit(s)**

Offered periodically to meet student special interests in the field.

MATH 420 - Advanced Analysis I**3 Credit(s)**

Rigorous presentation of the fundamental concepts and techniques of real analysis, including a careful study of continuity and convergence, sets and functions, sequences and series, limits and continuity, and differentiation.

Prerequisite(s):

MATH 220 Minimum Grade: C- OR T
AND

MATH 250 Minimum Grade: C- OR T

MATH 421 - Advanced Analysis II

3 Credit(s)

This course is a continuation of MATH 420 with an emphasis on integration, sequences and series of functions, uniform convergence, infinite series, and additional topics of the instructors choosing.

Prerequisite(s):

MATH 420 Minimum Grade: C- OR T

MATH 430 - Complex Analysis

3 Credit(s)

Theory of functions of one complex variable, including derivatives, integrals, power series, residues, and conformal mappings.

Prerequisite(s):

MATH 220 Minimum Grade: C- OR T

MATH 440 - Topology

3 Credit(s)

This course is an introduction to the theory of point-set topology. The main components of the course will be topological spaces, including product and quotient spaces, continuous functions, local and global connectedness, local and global compactness, countability, separability, and the Tychonoff axioms. The culmination of the course will be in the Tietze extension theorem, Uryson's Lemma, and Uryson's Metrization theorem. Further study into Tychonoff axioms and spaces and the Tychonoff theorem will be done, time permitting.

Prerequisite(s):

MATH 250 Minimum Grade: C- OR T

MATH 479 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

1 Class in Computer Programming Is Required (3 or 4 Credits)

CSCI 202 - Programming for Science/Math/Engineering

3 Credit(s)

Covers the fundamentals of programming in a language widely used in mathematical, scientific, and engineering disciplines. The programming language may vary each time the course is offered. Examples of languages that may be used in the course include C++, Python, and MatLab.

Prerequisite(s):

Math Placement Test - Minimum Score: 5

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

CSCI 205 - Computer Science I

4 Credit(s)

This course is the second course in the introductory programming sequence for computer science majors. Through the study of object design this course introduces the basics of graphical user interfaces, data types, control structures, methods, arrays, strings, files, simple graphics and fundamental algorithms. Students will also be introduced to object oriented design, polymorphism, interfaces, the concept of object abstraction, and simple design patterns.

Prerequisite(s):

CSCI 104 Minimum Grade: C- OR T

OR

CSCI 202 Minimum Grade: C- OR T

Minimum 10 Credit Hours

from the following list of science classes (must include corresponding lab):

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1
OR ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score:
18

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1**1 Credit(s)**

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

Note

The above corresponds to a minimum of 56 credits required with 20 upper-division MATH courses

Bachelor of Arts in Mathematics, Secondary Teacher Licensure

Go to: Bachelor of Arts, Secondary Education Licensure

Go to: Mathematics

This degree track is designed to meet the needs of individuals interested in teaching mathematics at the middle-school level and to increase the number of middle-school teachers with a strong mathematics background.

Note: Colorado does not grant licensure for the middle-school grades separate from high school, and furthermore defines the term "highly qualified" as 24 credits in a content area. This degree track exceeds the 24 credit "highly qualified" definition; it follows the suggestions set forth by the Mathematical Association of America (MAA) for prospective middle-school teachers (grades 6-8) and provides appropriate background for someone to meet the Colorado Model Content Standards for mathematics at the middle-school level. However, the coursework in this degree track does NOT provide sufficient background in several areas as described in the guidelines set forth by the MAA for preparing high school teachers (grades 9-12), nor does it meet the requirements for secondary licensure (mathematics) in all states (i.e., a traditional B.A. degree in mathematics).

In summary, this degree track is designed to meet the needs of middle school teachers, provides adequate preparation for a high school teacher in a rural environment, and exceeds the 24 credit hours of content benchmark set by the state for secondary licensure in a content area.

Complete Required Mathematics Requirements

Required Mathematics Core (27 Credits)

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T

OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

MATH 230 - Excursions in Mathematics

3 Credit(s)

A quantitative and qualitative exploration of some of the great ideas and methods of mathematics. The main focus is on critical thinking and problem solving, as well as mathematical communication. Topics covered include infinity, logic, probability, statistics, Fibonacci numbers, the golden ratio, topology, non-Euclidean geometry, graphs, Pascal's triangle, tiling, fractals, voting theory chaos, and higher dimensions.

Prerequisite(s):

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

MATH 250 - Introduction to Mathematical Thought

3 Credit(s)

This course looks at topics central to further study in mathematics. These include symbolic logic, especially as it applies to mathematical proof; methods of mathematical proof such as direct proof, indirect proof, and by induction; use and meaning of mathematical quantifiers and predicates; sets; relations; equivalence relations and partitions; order relations; and functions and their properties.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

MATH 331 - Modern Geometry

3 Credit(s)

An introduction to plane geometry intended for future teachers of mathematics. Typical topics include deductive reasoning and the axiomatic method, Euclidean geometry, parallelism, hyperbolic and other non-Euclidean geometries.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

AND

MATH 250 Minimum Grade: C- OR T

MATH 335 - History of Mathematics

3 Credit(s)

This course traces the historical development of mathematics from ancient to modern times, placing mathematical facts into a meaningful intellectual and historical context. Typical topics include mathematics in early civilization such as Egypt and Babylonia; early Greek mathematics from Euclid to Archimedes; the work of Diophantus; mathematics in medieval Islam and its transmission to the Latin West; the early development of algebra; the analytic geometry of Descartes and Fermat; the development of the calculus at the hands of Newton and Leibniz; the contributions of the Bernoulli family; nineteenth-century analysis from Cauchy to Weierstrass; nineteenth-century algebra from Galois through Klein; the development of non-Euclidean geometry; and Cantor's development in set theory.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 471 - Senior Capstone I

1 Credit(s)

First-semester of a capstone course intended for senior mathematics majors. In this course students will begin the development of a project to be conducted under the guidance of a faculty advisor from the department. In addition, the course will focus on written and oral communication of technical material appropriate to the disciplines of mathematics, computer science, and physics.

Prerequisite(s):

Senior Standing

MATH 472 - Senior Capstone II

1 Credit(s)

Second-semester of a capstone course intended for senior mathematics majors. In this course students will continue the development of an independent project, begun in MATH 471, and conducted under the guidance of a faculty advisor from the department. In addition, the course will focus on written and oral communication of technical material appropriate to the disciplines of mathematics, computer science, and physics.

Prerequisite(s):

MATH 471 Minimum Grade: C- OR T

Complete a Minimum of 6 Additional Credits (not more than three credits can be a computer science course)

CSCI 202 - Programming for Science/Math/Engineering

3 Credit(s)

Covers the fundamentals of programming in a language widely used in mathematical, scientific, and engineering disciplines. The programming language may vary each time the course is offered. Examples of languages that may be used in the course include C++, Python, and MatLab.

Prerequisite(s):

Math Placement Test - Minimum Score: 5
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

CSCI 205 - Computer Science I**4 Credit(s)**

This course is the second course in the introductory programming sequence for computer science majors. Through the study of object design this course introduces the basics of graphical user interfaces, data types, control structures, methods, arrays, strings, files, simple graphics and fundamental algorithms. Students will also be introduced to object oriented design, polymorphism, interfaces, the concept of object abstraction, and simple design patterns.

Prerequisite(s):

CSCI 104 Minimum Grade: C- OR T
OR

CSCI 202 Minimum Grade: C- OR T

CSCI 224 - Discrete Concepts**4 Credit(s)**

A course on the fundamentals of discrete (as opposed to continuous) processes. The course is a foundational course for students pursuing the B.S. Mathematical Sciences Computer Science degree. The course covers a variety of discrete mathematical topics required for a solid background in computer science, including mathematical logic, set theory, induction, algorithmic complexity, combinatorics, discrete probability, basic graph theory, relations, Boolean algebra, finite state automata, and basic theory of computation.

Prerequisite(s):

Math Placement Test - Minimum Score: 5
OR

MATH 106 Minimum Grade: C- OR T

AND

CSCI 205 Minimum Grade: C- OR T

MATH 140 - Geometry Using Technology

3 Credit(s)

An introduction to the major concepts of Euclidean Geometry using interactive geometric visualization software such as Geometer's Sketchpad, Kig, or C.a.R. Students will use the software to survey Euclidean Geometry and discover basic principles and theorems.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

Accuplacer - Math - Minimum Score: 085

OR

MATH 99 Minimum Grade: S OR T

MATH 220 - Calculus III

4 Credit(s)

This course is an introduction to the calculus of functions of several variables. Typical topics include three-dimensional analytic geometry, vectors, parametric curves and surfaces, arc length and curvature, limits, continuity, partial derivatives, gradients, directional derivatives, tangent planes, multiple integrals, vector fields, line and surface integrals, Green's theorem, Stokes' Theorem, and the divergence theorem.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 321 - Linear Algebra

3 Credit(s)

An introduction to linear algebra. Typical topics include solutions of systems of linear equations, matrix algebra, determinants, vector spaces, linear independence, span, basis, dimension, coordinates, linear transformations, matrix representations of linear transformations, eigenvalues, eigenvectors, diagonalization, Gram-Schmidt orthonormalization projection, and applications.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 322 - Algebraic Structures I

3 Credit(s)

An introduction to the theory of groups. Typical topics include sets, mappings, binary operations, equivalence relations, partitions, the integers, induction, the well-ordering property, elementary number theory, cryptography, coding theory, groups (permutation groups, symmetry groups, matrix groups, and cyclic groups), subgroups, cosets, Lagrange's theorem, normal subgroups, homomorphisms, isomorphisms, Cayley's theorem, and isomorphism theorems.

Prerequisite(s):

MATH 250 Minimum Grade: C- OR T
AND

MATH 321 Minimum Grade: C- OR T

MATH 327 - Differential Equations**3 Credit(s)**

An introduction to the study and application of ordinary differential equations. Typical topics include first order differential equations, linear differential equations, systems of equations, existence and uniqueness of solutions, bifurcations, the Laplace transform, matrix methods, and stability theorems.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 330 - Numerical Analysis**3 Credit(s)**

Numerical methods for the solution of mathematical problems and computer application of those methods. Typical topics include the bisection algorithm, fixed point iteration, interpolation, polynomial approximation, numerical differentiation and integration, solution of systems of linear equations, least squares approximation, and error analysis.

Prerequisite(s):

MATH 121 Minimum Grade: C- or T
AND

CSCI 202 Minimum Grade: C- or T

OR

CSCI 205 Minimum Grade: C- or T

MATH 340 - Probability and Statistics**3 Credit(s)**

A mathematically oriented introductory course in probability and statistics. Typical topics include counting techniques and laws of probability, independence, discrete and continuous random variable, distributions (normal, t, chi, square, F, Poisson, exponential, and sampling), regression correlation, confidence intervals and hypothesis testing, mathematical expectation, moment generating functions, the Central Limit Theorem, and point estimation.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 420 - Advanced Analysis I**3 Credit(s)**

Rigorous presentation of the fundamental concepts and techniques of real analysis, including a careful study of

continuity and convergence, sets and functions, sequences and series, limits and continuity, and differentiation.

Prerequisite(s):

MATH 220 Minimum Grade: C- OR T
AND

MATH 250 Minimum Grade: C- OR T

MATH 430 - Complex Analysis

3 Credit(s)

Theory of functions of one complex variable, including derivatives, integrals, power series, residues, and conformal mappings.

Prerequisite(s):

MATH 220 Minimum Grade: C- OR T

Note

The above corresponds to a minimum of 69 credits required with 8 upper-division MATH courses

Plus Additional Secondary Education Licensure Requirements from the School of Education

Bachelor of Arts, Secondary Education Licensure

Bachelor of Arts in Music Education, K-12 Licensure

Go to: Bachelor of Arts, K-12 Education Licensure

Go to: Music

Entrance Requirements

New music majors and minors are required to complete an entrance audition for admittance to the Department of Music.

Placement Examinations

- Transfer and new students in music must take placement examinations as appropriate in applied music and music theory.
- Students who have not been enrolled in applied music or music theory for two or more years must reaudition for admittance into the Department of Music and take a theory placement exam.

Specific Courses Required for this Degree

Completion of the Undergraduate General Education Requirements for the Bachelor of Arts degree, which must include MUS 100, plus the Bachelor of Arts, K-12 Education Licensure requirements.

Completion of the Following

MUS 000 - Recital Attendance

0 Credit(s)

A requirement for music majors and minors, which consists of attendance at a designated number of concerts/recitals each semester.

MUS 106 - Careers in the Music Industry

1 Credit(s)

The course provides a broad overview of the music industry, the career opportunities that are available, and effective methods of preparing for success in ones chosen career path.

MUS 103 - Introduction to Music Technology

1 Credit(s)

An introduction to music technology, covering a broad range of topics such as music notation, MIDI, music sequencing, mixing, and basic audio editing. The programs to be used include Finale, Garageband, and Audacity, and students compose music utilizing basic concepts of music fundamentals and music theory. The goal of this course is to equip students with music technology skills and knowledge that will be of benefit during their collegiate and professional careers.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 104 - Music Theory I

3 Credit(s)

Development of basic music skills and harmony with practical application through part-writing and composition.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 108 - Aural Skills I

1 Credit(s)

Foundational work in sight singing and written dictation.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 140 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

MUS 141 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 140 Minimum Grade: D OR T

MUS 204 - Music Theory II

3 Credit(s)

Advanced study in music writing and analysis with emphasis on tonal and chromatic harmony.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

MUS 208 - Aural Skills II

1 Credit(s)

Emphasis on sight singing in parts, more difficult keys and intervals, modulations, and rhythmic patterns in dictation.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

AND

MUS 108 Minimum Grade: C- OR T

Co-requisite(s): MUS 204

MUS 240 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 141 Minimum Grade: C- OR T

MUS 241 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 240 Minimum Grade: C- OR T

MUS 304 - Advanced Theory

3 Credit(s)

The study of advanced chromatic harmony and twentieth-century musical techniques through analysis and composition.

Prerequisite(s):

MUS 103 Minimum Grade: C- OR T

AND

MUS 104 Minimum Grade: C- OR T

AND

MUS 204 Minimum Grade: C- OR T

MUS 308 - Advanced Aural Skills

1 Credit(s)

Advanced sight singing and ear training, including harmonic and melodic dictation using chromatic intervals.

Prerequisite(s):

MUS 208 Minimum Grade: C- OR T

MUS 320 - Advanced Piano Class

1 Credit(s)

Advanced functional keyboard technique with emphasis on skills needed to fulfill the piano proficiency requirement.

Prerequisite(s):

MUS 220 Minimum Grade: C- OR T

MUS 322 - Percussion Methods

1 Credit(s)

A course designed to enable music education majors to gain a practical knowledge of percussion instruments and relevant pedagogy.

MUS 323 - Brass Methods

1 Credit(s)

A course designed to enable music education majors to gain a practical knowledge of brass instruments and relevant pedagogy.

MUS 324 - Woodwind Methods

1 Credit(s)

A course designed to enable music education majors to gain a practical knowledge of woodwind instruments and relevant pedagogy.

MUS 325 - String Methods

1 Credit(s)

A course designed to enable music education majors to gain a practical knowledge of string instruments and relevant pedagogy.

MUS 326 - Music History I

3 Credit(s)

A detailed survey of music history from antiquity to 1750.

Prerequisite(s):

MUS 100 Minimum Grade: C- OR T
AND

MUS 104 Minimum Grade: C- OR T

MUS 327 - Music History II

3 Credit(s)

A detailed survey of music history from 1750 to the present.

Prerequisite(s):

MUS 100 Minimum Grade: C- OR T
AND

MUS 104 Minimum Grade: C- OR T

MUS 333 - Form and Analysis

2 Credit(s)

This course examines the principal musical forms and structural elements of music from the Baroque period through the present. While the majority of the course covers western classical music and composers, forms in pop and rock music will also be covered. Students will be introduced to a variety of approaches and philosophies of musical analysis, accomplished through listening and analysis of musical repertoire. A principal outcome of this course is an increased awareness of the elements of musical form and how they are important in developing insight, understanding, and

interpretation of a musical work.

Prerequisite(s):

MUS 304 Minimum Grade: C- or T
AND

MUS 308 Minimum Grade: C- or T

MUS 340 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 241 Minimum Grade: C- OR T

MUS 341 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 340 Minimum Grade: C- OR T

MUS 345 - Junior Recital

1 Credit(s)

Preparation and presentation of a public recital of approximately one-half hour of music.

Prerequisite(s):

MUS 340 Minimum Grade: C- OR T
OR

MUS 341 Minimum Grade: C- OR T

Co-requisite(s): MUS 341

MUS 360 - Conducting Techniques

2 Credit(s)

Development of fundamental conducting skills, score reading skills, musical concepts, and terminology.

Prerequisite(s):

MUS 204 Minimum Grade: C- OR T
AND

MUS 208 Minimum Grade: C- OR T

MUS 421 - Elementary School Music Methods

3 Credit(s)

A comprehensive study of principles, procedures and pedagogical approaches for teaching and administering music programs in elementary schools (grades K-6). A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation. Students must be enrolled in the Teacher Education Program.

Prerequisite(s):

ED 200 Minimum Grade: C OR T
AND

ED 220 Minimum Grade: C OR T

AND

MUS 304 Minimum Grade: C OR T

AND

MUS 360 Minimum Grade: C OR T

AND

Admission to the Educator Preparation Program

AND

Teacher Education Background Check Passed

MUS 422 - Secondary School Music Methods

3 Credit(s)

A comprehensive study of principles and procedures for teaching and administering music programs in secondary schools (grades 7-12). A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation. Students must be enrolled in the Teacher Education Program.

Prerequisite(s):

ED 200 Minimum Grade: C OR T
AND

ED 220 Minimum Grade: C OR T

AND

MUS 304 Minimum Grade: C OR T

AND

MUS 360 Minimum Grade: C OR T

AND

Admission to the Educator Preparation Program

AND

Teacher Education Background Check Passed

Completion of ONE of the Following Areas of Specialization

Choral

MUS 247 - Concert Choir

1 Credit(s)

Open to all qualified students with repertoire selected from the standard choral concert literature. May be repeated for credit.

OR

MUS 447 - Concert Choir

1 Credit(s)

This course is open to all qualified juniors and seniors, regardless of major, who perform a significant leadership role in the ensemble. Repertoire is selected from standard choral concert literature, as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

OR

MUS 257 - Chamber Choir

1 Credit(s)

An advanced mixed choral ensemble, open to students by audition. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

OR

MUS 457 - Chamber Choir

1 Credit(s)

This course is an advanced mixed choral ensemble, open by audition to junior and senior students who perform a significant leadership role in the ensemble. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

MUS 460 - Advanced Choral Conducting

2 Credit(s)

Advanced techniques for the choral conductor.

Prerequisite(s):

MUS 360 Minimum Grade: C- OR T

MUS 226 - Lyric Diction I

3 Credit(s)

A study of lyric diction and phonetic transcriptions of languages common to standard vocal repertoire. The course includes English, German, Spanish, and an introduction to the International Phonetic Alphabet.

MUS 227 - Lyric Diction II

3 Credit(s)

A study of lyric diction and phonetic transcriptions of languages common to standard vocal repertoire. The course includes Ecclesiastical Latin, Italian, French, and an introduction to the International Phonetic Alphabet.

Instrumental

MUS 245 - Concert Band

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard wind or percussion instrument. May be repeated for credit.

OR

MUS 451 - Concert Band

1 Credit(s)

This course is open to all qualified juniors and seniors, regardless of majors field, who demonstrate sufficient ability on a standard wind or percussion instrument and perform a significant leadership role in the ensemble. May be repeated for credit.

OR

MUS 250 - Orchestra

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard orchestral instrument. May be repeated for credit.

OR

MUS 450 - Orchestra

1 Credit(s)

Open by audition to Junior and Senior students who perform a significant leadership role in the orchestra. Repertoire is selected from standard orchestral literature. May be repeated for credit.

MUS 321 - Voice Methods

1 Credit(s)

A course designed to enable music education majors to gain a practical knowledge of the voice and relevant pedagogy. Not open to students whose principal instrument is voice.

MUS 461 - Advanced Instr Conducting

2 Credit(s)

Advanced techniques for the instrumental conductor.

Prerequisite(s):

MUS 360 Minimum Grade: C- OR T

MUS 486 - Marching Band Techniques

2 Credit(s)

Designed to help the band director chart marching band shows and deal with the logistics and techniques needed to manage the marching band.

Prerequisite(s):

MUS 422 Minimum Grade: C- OR T

Completion of both an Upper-Division Jury Exam and a Piano Proficiency Exam

Plus Additional K-12 Licensure Requirements from the School of Education

Bachelor of Arts, K-12 Education Licensure

Bachelor of Arts in Music, Emphasis in Composition

Go to: Music

Entrance Requirements

New music majors and minors are required to complete an entrance audition for admittance to the Department of Music.

Placement Examinations

- Transfer and new students in music must take placement examinations as appropriate in applied music and music theory.
- Students who have not been enrolled in applied music or music theory for two or more years must reaudition for admittance into the Department of Music and take a theory placement exam.

Completion of the Following

MUS 000 - Recital Attendance

0 Credit(s)

A requirement for music majors and minors, which consists of attendance at a designated number of concerts/recitals each semester.

MUS 106 - Careers in the Music Industry

1 Credit(s)

The course provides a broad overview of the music industry, the career opportunities that are available, and effective methods of preparing for success in ones chosen career path.

FYS 101 - First Year Seminar

1 to 3 Credit(s)

First-year students launch into the Adams Experience through a First-Year Seminar (FYS) course. FYS will engage students by creating habits for success, learning to navigate college life, and build skills for success. Each FYS will focus on a unique topic that will be the theme of course discussions, experiences, and assignments. FYS will develop academic and social capital and support a successful transition into higher education, instill lifelong learning, and reinforce student persistence.

MUS 103 - Introduction to Music Technology

1 Credit(s)

An introduction to music technology, covering a broad range of topics such as music notation, MIDI, music sequencing, mixing, and basic audio editing. The programs to be used include Finale, Garageband, and Audacity, and students compose music utilizing basic concepts of music fundamentals and music theory. The goal of this course is to equip students with music technology skills and knowledge that will be of benefit during their collegiate and professional careers.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 104 - Music Theory I

3 Credit(s)

Development of basic music skills and harmony with practical application through part-writing and composition.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 108 - Aural Skills I

1 Credit(s)

Foundational work in sight singing and written dictation.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 140 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

MUS 141 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 140 Minimum Grade: D OR T

MUS 204 - Music Theory II

3 Credit(s)

Advanced study in music writing and analysis with emphasis on tonal and chromatic harmony.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

MUS 208 - Aural Skills II

1 Credit(s)

Emphasis on sight singing in parts, more difficult keys and intervals, modulations, and rhythmic patterns in dictation.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T
AND

MUS 108 Minimum Grade: C- OR T

Co-requisite(s): MUS 204

MUS 240 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 141 Minimum Grade: C- OR T

MUS 241 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 240 Minimum Grade: C- OR T

MUS 242 - Applied Music - Composition

2 Credit(s)

This course will provide private instruction in basic music composition. May be repeated for credit (four hours maximum).

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

MUS 243 - Applied Music - Composition

2 Credit(s)

This course will provide further private instruction in basic music composition. May be repeated for credit (four hours maximum). This course requires instructor approval for registration purposes.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T
AND

MUS 242 Minimum Grade: C- OR T

MUS 304 - Advanced Theory

3 Credit(s)

The study of advanced chromatic harmony and twentieth-century musical techniques through analysis and composition.

Prerequisite(s):

MUS 103 Minimum Grade: C- OR T
AND

MUS 104 Minimum Grade: C- OR T

AND

MUS 204 Minimum Grade: C- OR T

MUS 308 - Advanced Aural Skills

1 Credit(s)

Advanced sight singing and ear training, including harmonic and melodic dictation using chromatic intervals.

Prerequisite(s):

MUS 208 Minimum Grade: C- OR T

MUS 320 - Advanced Piano Class

1 Credit(s)

Advanced functional keyboard technique with emphasis on skills needed to fulfill the piano proficiency requirement.

Prerequisite(s):

MUS 220 Minimum Grade: C- OR T

MUS 326 - Music History I

3 Credit(s)

A detailed survey of music history from antiquity to 1750.

Prerequisite(s):

MUS 100 Minimum Grade: C- OR T
AND

MUS 104 Minimum Grade: C- OR T

MUS 327 - Music History II

3 Credit(s)

A detailed survey of music history from 1750 to the present.

Prerequisite(s):

MUS 100 Minimum Grade: C- OR T
AND

MUS 104 Minimum Grade: C- OR T

MUS 333 - Form and Analysis**2 Credit(s)**

This course examines the principal musical forms and structural elements of music from the Baroque period through the present. While the majority of the course covers western classical music and composers, forms in pop and rock music will also be covered. Students will be introduced to a variety of approaches and philosophies of musical analysis, accomplished through listening and analysis of musical repertoire. A principal outcome of this course is an increased awareness of the elements of musical form and how they are important in developing insight, understanding, and interpretation of a musical work.

Prerequisite(s):

MUS 304 Minimum Grade: C- or T
AND

MUS 308 Minimum Grade: C- or T

MUS 340 - Applied Music**2 Credit(s)**

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 241 Minimum Grade: C- OR T

MUS 342 - Applied Music - Composition**2 Credit(s)**

This course will provide private instruction in advanced music composition including orchestration techniques. May be repeated for credit (four hours maximum). This course requires instructor approval for registration purposes.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T
AND

MUS 243 Minimum Grade: C- OR T

MUS 343 - Applied Music - Composition**2 Credit(s)**

This course will provide further private instruction in advanced music composition including polyphonic and non-tonal techniques. May be repeated for credit (four hours maximum). This course requires instructor approval for registration purposes.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

AND

MUS 342 Minimum Grade: C- OR T

MUS 360 - Conducting Techniques

2 Credit(s)

Development of fundamental conducting skills, score reading skills, musical concepts, and terminology.

Prerequisite(s):

MUS 204 Minimum Grade: C- OR T

AND

MUS 208 Minimum Grade: C- OR T

MUS 375 - Music Recording Techniques

3 Credit(s)

This course serves as an introduction to audio and MIDI recording techniques, with topics to be covered including digital audio recording, microphones and microphone setup, digital editing and mixing, audio effects such as compression, reverb, and EQ, MIDI recording, and film scoring techniques. There will be extensive use of the program Cubase in this course. The goal of this course is to provide students with the basic techniques and tools to use recording technology in their musical careers.

Prerequisite(s):

MUS 101: Minimum grade C- or T

and

MUS 103: Minimum grade C- or T

and

MUS 104 : Minimum grade C- or T

or

Instructor Permission

MUS 376 - Topics in Music Business

3 Credit(s)

Topics in Music Business will introduce students to the business aspects of the music industry including market and promotion, copyright law, publishing, contracts, licensing, management, concert promotion and production, profit and non-profit arts organizations, grant writing and fundraising.

MUS 378 - Music Recording Seminar

2 Credit(s)

This course is a project-based course with focus on discussion of projects, recording and mixing techniques, and critical listening to recordings. Students will work on semester-long recording projects in the ASU recording studio and participate in class discussion on these projects..

Prerequisite(s):

MUS 103 Minimum Grade: C- OR T
AND

MUS 375 Minimum Grade: C- OR T

MUS 380 - Commercial Music Composition and Production I

1 Credit(s)

The course will provide seminar-like instruction in commercial music composition (pop, rock, R&B, etc...) and production techniques. Students will work individually or in groups in the ASU recording studio on completing at least one finished composition and recording.

Prerequisite(s):

MUS 103 Minimum Grade: C-
AND

MUS 375 Minimum Grade: C-

AND

MUS 378 Minimum Grade: C-

MUS 381 - Commercial Music Composition and Production II

1 Credit(s)

This course will provide seminar-like instruction in commercial music composition (pop, rock, R&B, etc.), music production techniques, and composing for film trailers and video games. Students will work individually or in groups in the ASU recording studio on completing two film and video game projects and one individual composition and recording in a genre of the students choice.

Prerequisite(s):

MUS 103 Minimum Grade: C- OR T
AND

MUS 375 Minimum Grade: C- OR T

AND

MUS 378 Minimum Grade: C- OR T

- MUS XXX - Upper-Division Music Electives **3 Credit(s)**

MUS 444 - Senior Project - Composition

2 Credit(s)

A course for the development and creation of a work for orchestra or wind ensemble. Orchestration techniques will be explored. Analysis of works within the genres will be examined and discussed. A significant written project on some aspect of contemporary music will be required. This course requires instructor approval for registration purposes.

Prerequisite(s):

MUS 343 Minimum Grade: C- OR T

MUS 445 - Senior Recital

2 Credit(s)

Preparation and presentation of a public recital of approximately forty-five minutes of music. Must be taken concurrently with MUS 440 or MUS 441.

Prerequisite(s):

MUS 440 Minimum Grade: C- OR T
AND

MUS 441 Minimum Grade: C- OR T

Completion of both an Upper-Division Jury Exam and a Piano Proficiency Exam

Large Ensemble Requirements

7 semesters:

MUS 245 - Concert Band

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard wind or percussion instrument. May be repeated for credit.

MUS 451 - Concert Band

1 Credit(s)

This course is open to all qualified juniors and seniors, regardless of majors field, who demonstrate sufficient ability on a standard wind or percussion instrument and perform a significant leadership role in the ensemble. May be repeated for credit.

OR

7 Semesters:

MUS 250 - Orchestra

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard orchestral instrument. May be repeated for credit.

MUS 450 - Orchestra

1 Credit(s)

Open by audition to Junior and Senior students who perform a significant leadership role in the orchestra. Repertoire is selected from standard orchestral literature. May be repeated for credit.

OR

7 Semesters of any Choir Combination:

MUS 247 - Concert Choir

1 Credit(s)

Open to all qualified students with repertoire selected from the standard choral concert literature. May be repeated for credit.

MUS 447 - Concert Choir

1 Credit(s)

This course is open to all qualified juniors and seniors, regardless of major, who perform a significant leadership role in the ensemble. Repertoire is selected from standard choral concert literature, as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

AND/OR

MUS 257 - Chamber Choir

1 Credit(s)

An advanced mixed choral ensemble, open to students by audition. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

MUS 457 - Chamber Choir

1 Credit(s)

This course is an advanced mixed choral ensemble, open by audition to junior and senior students who perform a significant leadership role in the ensemble. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

Bachelor of Arts in Music, Emphasis in Liberal Arts

Go to: Music

Entrance Requirements

New music majors and minors are required to complete an entrance audition for admittance to the Department of Music.

Placement Examinations

- Transfer and new students in music must take placement examinations as appropriate in applied music and music theory.
- Students who have not been enrolled in applied music or music theory for two or more years must reaudit for admittance into the Department of Music and take a theory placement exam.

Completion of the Following

MUS 000 - Recital Attendance

0 Credit(s)

A requirement for music majors and minors, which consists of attendance at a designated number of concerts/recitals each semester.

MUS 103 - Introduction to Music Technology

1 Credit(s)

An introduction to music technology, covering a broad range of topics such as music notation, MIDI, music sequencing, mixing, and basic audio editing. The programs to be used include Finale, Garageband, and Audacity, and students compose music utilizing basic concepts of music fundamentals and music theory. The goal of this course is to equip students with music technology skills and knowledge that will be of benefit during their collegiate and professional careers.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 104 - Music Theory I

3 Credit(s)

Development of basic music skills and harmony with practical application through part-writing and composition.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 106 - Careers in the Music Industry

1 Credit(s)

The course provides a broad overview of the music industry, the career opportunities that are available, and effective methods of preparing for success in ones chosen career path.

MUS 108 - Aural Skills I

1 Credit(s)

Foundational work in sight singing and written dictation.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 140 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

MUS 141 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 140 Minimum Grade: D OR T

MUS 204 - Music Theory II

3 Credit(s)

Advanced study in music writing and analysis with emphasis on tonal and chromatic harmony.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

MUS 208 - Aural Skills II

1 Credit(s)

Emphasis on sight singing in parts, more difficult keys and intervals, modulations, and rhythmic patterns in dictation.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T
AND

MUS 108 Minimum Grade: C- OR T

Co-requisite(s): MUS 204

MUS 240 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 141 Minimum Grade: C- OR T

MUS 241 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 240 Minimum Grade: C- OR T

MUS 304 - Advanced Theory

3 Credit(s)

The study of advanced chromatic harmony and twentieth-century musical techniques through analysis and composition.

Prerequisite(s):

MUS 103 Minimum Grade: C- OR T

AND

MUS 104 Minimum Grade: C- OR T

AND

MUS 204 Minimum Grade: C- OR T

MUS 308 - Advanced Aural Skills

1 Credit(s)

Advanced sight singing and ear training, including harmonic and melodic dictation using chromatic intervals.

Prerequisite(s):

MUS 208 Minimum Grade: C- OR T

MUS 320 - Advanced Piano Class

1 Credit(s)

Advanced functional keyboard technique with emphasis on skills needed to fulfill the piano proficiency requirement.

Prerequisite(s):

MUS 220 Minimum Grade: C- OR T

MUS 326 - Music History I

3 Credit(s)

A detailed survey of music history from antiquity to 1750.

Prerequisite(s):

MUS 100 Minimum Grade: C- OR T
AND

MUS 104 Minimum Grade: C- OR T

MUS 327 - Music History II

3 Credit(s)

A detailed survey of music history from 1750 to the present.

Prerequisite(s):

MUS 100 Minimum Grade: C- OR T
AND

MUS 104 Minimum Grade: C- OR T

MUS 333 - Form and Analysis

2 Credit(s)

This course examines the principal musical forms and structural elements of music from the Baroque period through the present. While the majority of the course covers western classical music and composers, forms in pop and rock music will also be covered. Students will be introduced to a variety of approaches and philosophies of musical analysis, accomplished through listening and analysis of musical repertoire. A principal outcome of this course is an increased awareness of the elements of musical form and how they are important in developing insight, understanding, and interpretation of a musical work.

Prerequisite(s):

MUS 304 Minimum Grade: C- or T
AND

MUS 308 Minimum Grade: C- or T

MUS 340 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 241 Minimum Grade: C- OR T

MUS 360 - Conducting Techniques

2 Credit(s)

Development of fundamental conducting skills, score reading skills, musical concepts, and terminology.

Prerequisite(s):

MUS 204 Minimum Grade: C- OR T
AND

MUS 208 Minimum Grade: C- OR T

Large Ensemble Requirements

7 semesters:

MUS 245 - Concert Band

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard wind or percussion instrument. May be repeated for credit.

MUS 451 - Concert Band

1 Credit(s)

This course is open to all qualified juniors and seniors, regardless of majors field, who demonstrate sufficient ability on a standard wind or percussion instrument and perform a significant leadership role in the ensemble. May be repeated for credit.

OR

7 Semesters:

MUS 250 - Orchestra

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard orchestral instrument. May be repeated for credit.

MUS 450 - Orchestra

1 Credit(s)

Open by audition to Junior and Senior students who perform a significant leadership role in the orchestra. Repertoire is selected from standard orchestral literature. May be repeated for credit.

OR

7 Semesters of any Choir Combination:

MUS 247 - Concert Choir

1 Credit(s)

Open to all qualified students with repertoire selected from the standard choral concert literature. May be repeated for credit.

MUS 447 - Concert Choir

1 Credit(s)

This course is open to all qualified juniors and seniors, regardless of major, who perform a significant leadership role in the ensemble. Repertoire is selected from standard choral concert literature, as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

AND/OR

MUS 257 - Chamber Choir

1 Credit(s)

An advanced mixed choral ensemble, open to students by audition. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

MUS 457 - Chamber Choir

1 Credit(s)

This course is an advanced mixed choral ensemble, open by audition to junior and senior students who perform a significant leadership role in the ensemble. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

Liberal Arts Emphasis Requirements

Completion of a minor of at least 18 semester hours outside the Music Department or 18 elective hours within the Music Department.

- MUS XXX - Upper-division music electives **3 Credit(s)**

Completion of both an upper-division jury exam and a piano proficiency exam

Bachelor of Arts in Music, Emphasis in Music Industry

Go to: Music

Entrance Requirements

New music majors and minors are required to complete an entrance audition for admittance to the Department of Music.

Placement Examinations

- Transfer and new students in music must take placement examinations as appropriate in applied music and music theory.
- Students who have not been enrolled in applied music or music theory for two or more years must reaudit for admittance into the Department of Music and take a theory placement exam.

Complete the Following

MUS 000 - Recital Attendance

0 Credit(s)

A requirement for music majors and minors, which consists of attendance at a designated number of concerts/recitals each semester.

MUS 103 - Introduction to Music Technology

1 Credit(s)

An introduction to music technology, covering a broad range of topics such as music notation, MIDI, music sequencing, mixing, and basic audio editing. The programs to be used include Finale, Garageband, and Audacity, and students compose music utilizing basic concepts of music fundamentals and music theory. The goal of this course is to equip students with music technology skills and knowledge that will be of benefit during their collegiate and professional careers.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 104 - Music Theory I

3 Credit(s)

Development of basic music skills and harmony with practical application through part-writing and composition.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 106 - Careers in the Music Industry

1 Credit(s)

The course provides a broad overview of the music industry, the career opportunities that are available, and effective methods of preparing for success in ones chosen career path.

MUS 108 - Aural Skills I

1 Credit(s)

Foundational work in sight singing and written dictation.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 204 - Music Theory II

3 Credit(s)

Advanced study in music writing and analysis with emphasis on tonal and chromatic harmony.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

MUS 208 - Aural Skills II

1 Credit(s)

Emphasis on sight singing in parts, more difficult keys and intervals, modulations, and rhythmic patterns in dictation.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

AND

MUS 108 Minimum Grade: C- OR T

Co-requisite(s): MUS 204

MUS 304 - Advanced Theory

3 Credit(s)

The study of advanced chromatic harmony and twentieth-century musical techniques through analysis and composition.

Prerequisite(s):

MUS 103 Minimum Grade: C- OR T

AND

MUS 104 Minimum Grade: C- OR T

AND

MUS 204 Minimum Grade: C- OR T

MUS 308 - Advanced Aural Skills

1 Credit(s)

Advanced sight singing and ear training, including harmonic and melodic dictation using chromatic intervals.

Prerequisite(s):

MUS 208 Minimum Grade: C- OR T

MUS 320 - Advanced Piano Class

1 Credit(s)

Advanced functional keyboard technique with emphasis on skills needed to fulfill the piano proficiency requirement.

Prerequisite(s):

MUS 220 Minimum Grade: C- OR T

MUS 327 - Music History II

3 Credit(s)

A detailed survey of music history from 1750 to the present.

Prerequisite(s):

MUS 100 Minimum Grade: C- OR T

AND

MUS 104 Minimum Grade: C- OR T

MUS 360 - Conducting Techniques

2 Credit(s)

Development of fundamental conducting skills, score reading skills, musical concepts, and terminology.

Prerequisite(s):

MUS 204 Minimum Grade: C- OR T

AND

MUS 208 Minimum Grade: C- OR T

Applied Area Options

a. Single Applied Area

MUS 140 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

MUS 141 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 140 Minimum Grade: D OR T

MUS 240 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 141 Minimum Grade: C- OR T

MUS 241 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 240 Minimum Grade: C- OR T

MUS 340 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 241 Minimum Grade: C- OR T

b. Multiple applied area (two - three applied areas possible)

First Instrument

MUS 140 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

MUS 141 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 140 Minimum Grade: D OR T

MUS 240 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 141 Minimum Grade: C- OR T

Second Instrument

MUS 140 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

MUS 141 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 140 Minimum Grade: D OR T

Large Ensemble Requirements

7 semesters:

MUS 245 - Concert Band

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard wind or percussion instrument. May be repeated for credit.

MUS 451 - Concert Band

1 Credit(s)

This course is open to all qualified juniors and seniors, regardless of majors field, who demonstrate sufficient ability on a standard wind or percussion instrument and perform a significant leadership role in the ensemble. May be repeated for credit.

OR

7 Semesters:

MUS 250 - Orchestra

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard orchestral instrument. May be repeated for credit.

MUS 450 - Orchestra

1 Credit(s)

Open by audition to Junior and Senior students who perform a significant leadership role in the orchestra. Repertoire is selected from standard orchestral literature. May be repeated for credit.

OR

7 Semesters of any Choir Combination:

MUS 247 - Concert Choir

1 Credit(s)

Open to all qualified students with repertoire selected from the standard choral concert literature. May be repeated for credit.

MUS 447 - Concert Choir

1 Credit(s)

This course is open to all qualified juniors and seniors, regardless of major, who perform a significant leadership role in the ensemble. Repertoire is selected from standard choral concert literature, as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

AND/OR

MUS 257 - Chamber Choir

1 Credit(s)

An advanced mixed choral ensemble, open to students by audition. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

MUS 457 - Chamber Choir

1 Credit(s)

This course is an advanced mixed choral ensemble, open by audition to junior and senior students who perform a significant leadership role in the ensemble. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

Music Industry Core Courses

MUS 375 - Music Recording Techniques

3 Credit(s)

This course serves as an introduction to audio and MIDI recording techniques, with topics to be covered including digital audio recording, microphones and microphone setup, digital editing and mixing, audio effects such as compression, reverb, and EQ, MIDI recording, and film scoring techniques. There will be extensive use of the program Cubase in this course. The goal of this course is to provide students with the basic techniques and tools to use recording technology in their musical careers.

Prerequisite(s):

MUS 101: Minimum grade C- or T
and

MUS 103: Minimum grade C- or T

and

MUS 104 : Minimum grade C- or T

or

Instructor Permission

MUS 376 - Topics in Music Business

3 Credit(s)

Topics in Music Business will introduce students to the business aspects of the music industry including market and promotion, copyright law, publishing, contracts, licensing, management, concert promotion and production, profit and non-profit arts organizations, grant writing and fundraising.

MUS 377 - Music Industry Internship

3 Credit(s)

This course is designed to provide practical experience for advanced students in the Music Industry emphasis. Students will further develop competencies in business or recording related areas of the industry while providing practical application of theories, techniques, and concepts discussed in other courses. Students are required to be successfully admitted to upper divisional study, and Senior Standing (90 more hours completed). An approved Internship Application and current resume/references will also be submitted prior to registering in this class.

Prerequisite(s):

MUS 103 C-, MUS 375 C-, MUS 376 C-, MUS 378 C- Permission of Instructor.

MUS 378 - Music Recording Seminar

2 Credit(s)

This course is a project-based course with focus on discussion of projects, recording and mixing techniques, and critical listening to recordings. Students will work on semester-long recording projects in the ASU recording studio and participate in class discussion on these projects..

Prerequisite(s):

MUS 103 Minimum Grade: C- OR T
AND

MUS 375 Minimum Grade: C- OR T

MUS 476 - Music Business Capstone

2 Credit(s)

The course will provide specialized focus and instruction on a project relating to music business and/or recording that aligns with the student's desired career path.

Prerequisite(s):

MUS 103 Minimum Grade: C-

Business Core Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

Complete 2 of the Following Courses

NOTE: MUS 380 and MUS 381 are 1 credit courses and therefore must both be taken in order to count as one course

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

COMM 275 - News Writing and Criticism

3 Credit(s)

Inverted pyramid print writing and basic broadcast writing are covered in this course. Additionally, students critique, discuss, and analyze current print and broadcasting media conventions, ethics, and procedures.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

COMM 280 - Visual Literacy

3 Credit(s)

This course will decode the messages behind visual communication by covering concepts of photography, television, film, digital imagery, social media, video games, etc. Students will interrogate visual meaning, and even create visual messages using standard industry practices.

Prerequisite(s):

ENG 102 Minimum Grade: C-

COMM 360 - Media Management

3 Credit(s)

Students learn how various media organizations are managed and operated, with a specific focus on radio and television. Various management structures are also explored.

Prerequisite(s):

COMM 293 Minimum Grade: C- OR T

CSCI 104 - Fundamentals of Programming

3 Credit(s)

This course is the first course in the introductory programming sequence for computer science and information technology majors, but is suitable for non-majors interested in getting a taste of computer programming. The course covers program creation, basic control structures, variables, arithmetic expressions, functions, parameters, internal documentation, arrays and strings.

MUS 333 - Form and Analysis

2 Credit(s)

This course examines the principal musical forms and structural elements of music from the Baroque period through the present. While the majority of the course covers western classical music and composers, forms in pop and rock music will also be covered. Students will be introduced to a variety of approaches and philosophies of musical analysis, accomplished through listening and analysis of musical repertoire. A principal outcome of this course is an increased awareness of the elements of musical form and how they are important in developing insight, understanding, and interpretation of a musical work.

Prerequisite(s):

MUS 304 Minimum Grade: C- or T

AND

MUS 308 Minimum Grade: C- or T

MUS 380 - Commercial Music Composition and Production I

1 Credit(s)

The course will provide seminar-like instruction in commercial music composition (pop, rock, R&B, etc...) and production techniques. Students will work individually or in groups in the ASU recording studio on completing at least one finished composition and recording.

Prerequisite(s):

MUS 103 Minimum Grade: C-

AND

MUS 375 Minimum Grade: C-

AND

MUS 378 Minimum Grade: C-

MUS 381 - Commercial Music Composition and Production II

1 Credit(s)

This course will provide seminar-like instruction in commercial music composition (pop, rock, R&B, etc.), music

production techniques, and composing for film trailers and video games. Students will work individually or in groups in the ASU recording studio on completing two film and video game projects and one individual composition and recording in a genre of the students choice.

Prerequisite(s):

MUS 103 Minimum Grade: C- OR T
AND

MUS 375 Minimum Grade: C- OR T

AND

MUS 378 Minimum Grade: C- OR T

MUS 326 - Music History I

3 Credit(s)

A detailed survey of music history from antiquity to 1750.

Prerequisite(s):

MUS 100 Minimum Grade: C- OR T
AND

MUS 104 Minimum Grade: C- OR T

THTR 205 - Improvisational Acting

3 Credit(s)

This course is an introduction to improvisation as a form of comedy entertainment. Both short and long form will be covered. Completion of this course is a prerequisite for membership in the Adams State University Improvisation Troupe.

THTR 210 - Stage Makeup

3 Credit(s)

Fundamental elements of design and application of theatre makeup. Painted theatrical makeup, latex, crepe hair, putty wax, prosthetics, and simulated physical trauma will be executed in this course.

THTR 223 - Acting

3 Credit(s)

An introduction to the art of performing using the Stanislavski system of acting. Classes will consist primarily of in-class activities designed to demonstrate acting concepts and principles. This course requires active participation in discussions, exercises, and the presentation of performances.

THTR 285 - Production Management

3 Credit(s)

This course presents information, materials, experiences, and projects that will lead students to an understanding of the functions of technical direction and stage and theatre management. It will teach students to become practicing, problem solving technical directors, stage managers and house managers.

Prerequisite(s):

THTR 251 Minimum Grade: C-

THTR 334 - Lighting Design

3 Credit(s)

This is an introductory-level, actively intensive, practical workshop, lecture, & discussion based class examining the tools, materials, skills and practices of lighting design, while developing creative thinking and visual communication techniques for the theatre designer. The emphasis of the class is on the creative process, from conceptualization to the execution and presentation of the design idea, with a major focus being the exploration and practical application of the Controllable Qualities of Light, Functions of Stage Light, and Designing with Light, and producing the Lighting plot and related paperwork.

Complete Both an Upper-Division Jury Exam and a Piano Proficiency Exam

Bachelor of Arts in Music, Emphasis in Performance

Go to: Music

Entrance Requirements

New music majors and minors are required to complete an entrance audition for admittance to the Department of Music.

Placement Examinations

- Transfer and new students in music must take placement examinations as appropriate in applied music and music theory.
- Students who have not been enrolled in applied music or music theory for two or more years must reaudition for admittance into the Department of Music and take a theory placement exam.

Completion of the Following

MUS 000 - Recital Attendance

0 Credit(s)

A requirement for music majors and minors, which consists of attendance at a designated number of concerts/recitals each semester.

MUS 103 - Introduction to Music Technology

1 Credit(s)

An introduction to music technology, covering a broad range of topics such as music notation, MIDI, music sequencing, mixing, and basic audio editing. The programs to be used include Finale, Garageband, and Audacity, and students compose music utilizing basic concepts of music fundamentals and music theory. The goal of this course is to equip students with music technology skills and knowledge that will be of benefit during their collegiate and professional careers.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 104 - Music Theory I

3 Credit(s)

Development of basic music skills and harmony with practical application through part-writing and composition.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 106 - Careers in the Music Industry

1 Credit(s)

The course provides a broad overview of the music industry, the career opportunities that are available, and effective methods of preparing for success in ones chosen career path.

MUS 108 - Aural Skills I

1 Credit(s)

Foundational work in sight singing and written dictation.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 140 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

MUS 141 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 140 Minimum Grade: D OR T

MUS 204 - Music Theory II

3 Credit(s)

Advanced study in music writing and analysis with emphasis on tonal and chromatic harmony.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

MUS 208 - Aural Skills II

1 Credit(s)

Emphasis on sight singing in parts, more difficult keys and intervals, modulations, and rhythmic patterns in dictation.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

AND

MUS 108 Minimum Grade: C- OR T

Co-requisite(s): MUS 204

MUS 240 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 141 Minimum Grade: C- OR T

MUS 241 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 240 Minimum Grade: C- OR T

MUS 304 - Advanced Theory

3 Credit(s)

The study of advanced chromatic harmony and twentieth-century musical techniques through analysis and composition.

Prerequisite(s):

MUS 103 Minimum Grade: C- OR T
AND

MUS 104 Minimum Grade: C- OR T

AND

MUS 204 Minimum Grade: C- OR T

MUS 308 - Advanced Aural Skills

1 Credit(s)

Advanced sight singing and ear training, including harmonic and melodic dictation using chromatic intervals.

Prerequisite(s):

MUS 208 Minimum Grade: C- OR T

MUS 320 - Advanced Piano Class

1 Credit(s)

Advanced functional keyboard technique with emphasis on skills needed to fulfill the piano proficiency requirement.

Prerequisite(s):

MUS 220 Minimum Grade: C- OR T

MUS 326 - Music History I

3 Credit(s)

A detailed survey of music history from antiquity to 1750.

Prerequisite(s):

MUS 100 Minimum Grade: C- OR T
AND

MUS 104 Minimum Grade: C- OR T

MUS 327 - Music History II

3 Credit(s)

A detailed survey of music history from 1750 to the present.

Prerequisite(s):

MUS 100 Minimum Grade: C- OR T
AND

MUS 104 Minimum Grade: C- OR T

MUS 333 - Form and Analysis

2 Credit(s)

This course examines the principal musical forms and structural elements of music from the Baroque period through the present. While the majority of the course covers western classical music and composers, forms in pop and rock music will also be covered. Students will be introduced to a variety of approaches and philosophies of musical analysis, accomplished through listening and analysis of musical repertoire. A principal outcome of this course is an increased awareness of the elements of musical form and how they are important in developing insight, understanding, and interpretation of a musical work.

Prerequisite(s):

MUS 304 Minimum Grade: C- or T
AND

MUS 308 Minimum Grade: C- or T

MUS 340 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 241 Minimum Grade: C- OR T

MUS 341 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 340 Minimum Grade: C- OR T

MUS 360 - Conducting Techniques

2 Credit(s)

Development of fundamental conducting skills, score reading skills, musical concepts, and terminology.

Prerequisite(s):

MUS 204 Minimum Grade: C- OR T
AND

MUS 208 Minimum Grade: C- OR T

Large Ensemble Requirements

7 semesters:

MUS 245 - Concert Band

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard wind or percussion instrument. May be repeated for credit.

MUS 451 - Concert Band

1 Credit(s)

This course is open to all qualified juniors and seniors, regardless of majors field, who demonstrate sufficient ability on a standard wind or percussion instrument and perform a significant leadership role in the ensemble. May be repeated for credit.

OR

7 Semesters:

MUS 250 - Orchestra

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard orchestral instrument. May be repeated for credit.

MUS 450 - Orchestra

1 Credit(s)

Open by audition to Junior and Senior students who perform a significant leadership role in the orchestra. Repertoire is selected from standard orchestral literature. May be repeated for credit.

OR

7 Semesters of any Choir Combination:

MUS 247 - Concert Choir

1 Credit(s)

Open to all qualified students with repertoire selected from the standard choral concert literature. May be repeated for credit.

MUS 447 - Concert Choir

1 Credit(s)

This course is open to all qualified juniors and seniors, regardless of major, who perform a significant leadership role in the ensemble. Repertoire is selected from standard choral concert literature, as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

AND/OR

MUS 257 - Chamber Choir

1 Credit(s)

An advanced mixed choral ensemble, open to students by audition. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

MUS 457 - Chamber Choir

1 Credit(s)

This course is an advanced mixed choral ensemble, open by audition to junior and senior students who perform a significant leadership role in the ensemble. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

Performance Requirements

MUS 345 - Junior Recital

1 Credit(s)

Preparation and presentation of a public recital of approximately one-half hour of music.

Prerequisite(s):

MUS 340 Minimum Grade: C- OR T
OR

MUS 341 Minimum Grade: C- OR T

Co-requisite(s): MUS 341

MUS 440 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (four hours maximum).

Prerequisite(s):

MUS 341 Minimum Grade: C- OR T
AND

MUS 345 Minimum Grade: C- OR T

MUS 441 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (four hours maximum).

Prerequisite(s):

MUS 345 Minimum Grade: C- OR T
AND

MUS 440 Minimum Grade: C- OR T

MUS 445 - Senior Recital

2 Credit(s)

Preparation and presentation of a public recital of approximately forty-five minutes of music. Must be taken concurrently with MUS 440 or MUS 441.

Prerequisite(s):

MUS 440 Minimum Grade: C- OR T
AND

MUS 441 Minimum Grade: C- OR T

MUS 376 - Topics in Music Business

3 Credit(s)

Topics in Music Business will introduce students to the business aspects of the music industry including market and promotion, copyright law, publishing, contracts, licensing, management, concert promotion and production, profit and non-profit arts organizations, grant writing and fundraising.

Completion of ONE of the Following Areas of Specialization

Instrumental

MUS 427 - Instrumental Lit and Pedagogy

3 Credit(s)

Historical survey of the student's own instrumental category (either woodwinds, brass, percussion, guitar or strings) and a study of the pedagogical techniques for that instrumental category.

MUS 449 - Chamber Music

1 Credit(s)

Selected groups including instrumental, vocal and mixed ensemble for performance of music in specific periods and mediums, open by audition to junior and senior students who perform a significant leadership role in the ensemble. May be repeated for credit.

- MUS XXX Upper-division music electives **5 Credit(s)**

Piano

MUS 364 - Accompanying Practicum I

2 Credit(s)

Training for the advanced pianist in vocal and instrumental accompanying skills, and related skills for dance accompanying.

Prerequisite(s):

MUS 241 Minimum Grade: C- OR T

MUS 365 - Accompanying Practicum II

2 Credit(s)

Training for the advanced pianist in vocal and instrumental accompanying skills, and related skills for dance accompanying.

Prerequisite(s):

MUS 364 Minimum Grade: C- OR T

MUS 428 - Piano Literature and Pedagogy

3 Credit(s)

Historical survey of the repertoire for piano and a study of pedagogical techniques for the piano.

MUS 449 - Chamber Music

1 Credit(s)

Selected groups including instrumental, vocal and mixed ensemble for performance of music in specific periods and mediums, open by audition to junior and senior students who perform a significant leadership role in the ensemble. May be repeated for credit.

- MUS XXX Upper-division Music Electives **3 Credit(s)**

Voice

MUS 429 - Voice Literature and Pedagogy

3 Credit(s)

A study of pedagogical techniques and vocal problems and the assignments of appropriate literature. A survey of materials include treatises, technique books, physiological books, repertoire, and other areas relevant to singing and to the teaching of singing.

MUS 426 - Song Literature

3 Credit(s)

Historic survey of the art of song.

MUS 252 - Music Theatre Workshop

1 Credit(s)

The study and production of musical theatre and opera repertoire appropriate for educational theatre. May be repeated for credit.

MUS 226 - Lyric Diction I

3 Credit(s)

A study of lyric diction and phonetic transcriptions of languages common to standard vocal repertoire. The course includes English, German, Spanish, and an introduction to the International Phonetic Alphabet.

MUS 227 - Lyric Diction II

3 Credit(s)

A study of lyric diction and phonetic transcriptions of languages common to standard vocal repertoire. The course includes Ecclesiastical Latin, Italian, French, and an introduction to the International Phonetic Alphabet.

- MUS XXX Upper-division music electives **2 Credit(s)**

Completion of both an Upper-Division Jury Exam and a Piano Proficiency Exam

Bachelor of Arts in Outdoor Education and Stewardship, Adventure Education Emphasis

Go to: Outdoor Education and Stewardship

Specific courses required for this degree:

Outdoor Education and Stewardship Core Courses (31 Credits)

OES 101 - Outdoor Recreation Essentials

3 Credit(s)

This course is a general introduction to outdoor recreation history, theories, natural resource management, and current trends in the outdoor recreation industry. Students are also introduced to essential outdoor skills for camping and backpacking including trip planning, equipment selection and care, food preparation, Leave No Trace environmental ethics, and risk management. Field trips are required including overnight trips.

OES 200 - Foundations of Outdoor Leadership

3 Credit(s)

This course is an overview of the history, theories, concepts, and practices that constitute outdoor leadership professional practice. Students learn a competency based approach to the development of an outdoor leader. Topics include historical and philosophical foundations of outdoor recreation and education, theories of leadership, judgment and decision making, teaching and facilitation, safety and risk management, and environmental stewardship. Field trips are required.

OES 261 - Outdoor Leadership Expedition

6 Credit(s)

This course is a field immersion experience to develop and practice outdoor leadership. Students participate in a two week backpacking expedition to learn and apply principles and strategies for minimum impact environmental ethics, risk management, teaching, and leadership. Field trips required.

Prerequisite(s):

OES 200 Minimum Grade: C-

KIN 266 - Wilderness First Aid (WFA)

1 Credit(s)

The course is designed to introduce you to the concepts of medical care in a wilderness setting. The course focuses on Basic Life Support skills, minor trauma, selected environmental topics, spine assessment and the ruling out process, allergic and toxic reactions, and "common" medical emergencies.

OES 269 - Observing Nature

3 Credit(s)

Through field experiences both on campus and off, students learn to carefully observe the natural environment, identify local flora and fauna, and keep a naturalists field journal. Meets once a week for 2 hours. Field trips are required.

OES 367 - Experiential Learning and Facilitation

3 Credit(s)

This course explores the intersectionality of various disciplines that have influenced the field of experiential education. Students will consider distinctions between teaching and facilitation, wrestle with the challenges posed by the learning process, investigate the complexities involved in change and conflict, and develop skills for facilitating individual growth and group development. Additionally, students will practice facilitating group games, initiatives, meetings, challenges and other activities that focus on intrapersonal and interpersonal growth and development.

Prerequisite(s):

OES 200 Minimum Grade: C-

OES 370 - Wildland Recreation Management

2 Credit(s)

This course immerses students into the field of recreation ecology. Hands-on experience participating in local stewardship projects with federal and state agencies will be a component of the course. Students will gain knowledge and experience with how agencies and organizations identify recreational impact oriented problems, collect data, prioritize, allocate resources, and collaborate to accomplish conservation and stewardship objectives. Students will practice with professional approaches and strategies for planning and monitoring recreational use. Students are required to participate in a variety of learning experiences in various locations throughout the San Luis Valley.

Co-requisite(s): OES 370L

OES 370L - Wildland Recreation Management Field Lab

1 Credit(s)

This is the field based lab for OES 370. Students will travel off-campus to various sites for field application of course content, meeting with land managers, and conducting research.

Co-requisite(s): OES 370

OES 450 - Program Design and Management

3 Credit(s)

To manage an outdoor program, outdoor leaders must add to their field based competencies and experience specific skill sets for effective oversight, support, and leadership. Program managers are responsible for a variety of critical administrative functions that ultimately lead to the effective delivery and risk management of outdoor programs. Students in this course will begin developing their administrative competencies including program design, risk management, budgeting, permitting, staff training, program assessment, incident response and more.

Prerequisite(s):

OES 200 Minimum Grade: C-
AND

OES 367 Minimum Grade: C-

OES 451 - Outdoor Education and Stewardship Internship

3 Credit(s)

To enhance and apply program skills, students will complete a 400-hour internship. To receive credit, students must document their hours and complete required internship assignments. Approval of internship by instructor is required.

Prerequisite(s):

OES 450 Minimum Grade: C-

OES 480 - Capstone Seminar in Outdoor Education and Stewardship

3 Credit(s)

In this course students will complete a signature project that demonstrates the culmination of their program work and experiences. During the course students will also investigate emergent trends, issues, and challenges related to outdoor education and recreation. Students will select a project of interest with the assistance of a faculty member. Project types include curriculum development, program design, original research, or volunteer service project. Students will also

finalize and submit their ePortfolio.

Prerequisite(s):

OES 450 Minimum Grade: C-

AND

OES 451 Minimum Grade: C-

Environmental Science Courses (17 Credits)

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 212 - Natural Resource Management on Public Lands

3 Credit(s)

This course will examine public lands management from both a theoretical and descriptive perspective. The major political forces affecting public lands, and the specific details of energy policy, forests, rangelands, national parks, and wildlife on public lands are discussed.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

OR

BIOL 330 Minimum Grade: C-

GSCI 307 - Bio-Geography

3 Credit(s)

The course builds upon topics introduced in the introductory physical geography and general biology courses and synthesizes concepts addressed in other upper-division courses dealing with vegetation science, climatology, soil, historical geology, ecology, and evolution to explain patterns and processes influencing past and present distributions of organisms.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

AND

BIOL 209 Minimum Grade: C-

BIOL 314 - Conservation Biology

3 Credit(s)

Conservation biology is the study of how to preserve the world's biological and genetic diversity while maintaining functional ecosystems. The course will explore these issues using an integrated approach with emphasis on identifying ways that wildlife and humans can sustainably coexist.

Prerequisite(s):

BIOL 330 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T
AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

People and Culture Requirements (6 Credits)

ENG 420 - Environmental Literature

3 Credit(s)

This course is a survey of environmental literature poetry, fiction, and non-fiction spanning from the beginning of the conservation movement with Thoreau through the modern environmental movement with Carson, and to the present day with a focus on sustainability and the Southwestern United States with attention paid to the environmental impacts on indigenous populations and minority groups and authors, particularly Latinx. Students will analyze, criticize, reflect, and write about the reading, but also reflect upon field visits to farms, ranches, monuments, and parks throughout the region.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

ADVENTURE RECREATION EMPHASIS (17 Credits Total)

4 Credits of:

Outdoor Skill Electives

OES 122 - Introduction to Canoeing and Stand-up Paddleboard (SUP)

1 Credit(s)

This course is designed to give students a foundation of skills for running non-whitewater rivers in a canoe or Stand-up Paddleboard (SUP). Students will learn basic paddling skills, river reading, equipment selection and use, and rescue techniques.

OES 123 - Introduction to Mountain Biking

1 Credit(s)

This course will provide students the fundamental skills necessary to ride a mountain bike. Participants will go through all of the beginner and intermediate skills required to handle a mountain bike as well as learn how to assess and navigate various terrain.

OES 124 - Introduction to Kayaking

1 Credit(s)

This course is designed to give students the fundamental skills for running class II rivers in a whitewater kayak. Students will learn basic paddling skills, river reading, equipment selection, and rescue techniques.

OES 125 - Winter Recreation Essentials

1 Credit(s)

This course introduces students to the essential knowledge and skills for winter travel and camping. Students will learn techniques for setting up camp and living outside in the snow giving student's confidence in their ability to enjoy recreation in the winter environment. Field trip is required.

OES 126 - Introduction to Ice Climbing

1 Credit(s)

This course is an introduction to the techniques, concepts, and practices of ice climbing. Students will learn basic skills including proper clothing selection, ice climbing equipment use and maintenance, route selection, and the fundamentals of movement on ice. Field trip required.

Prerequisite(s):

OES 121 Minimum Grade: P

OES 127 - Trail Stewardship

1 Credit(s)

This course is an introduction to the techniques, concepts, and practices of trail stewardship. Participation in a local volunteer trail project will be a primary part of this course.

OES 310 - Snow Mountaineering

1 Credit(s)

This course is an introduction to climbing in the alpine environment. Students learn skills and techniques for travel on snow and in 3rd and 4th class terrain. Field trips are required.

Prerequisite(s):

OES 264 Minimum Grade: C-

AND

OES 265 Minimum Grade: C-

AND

OES 327 Minimum Grade: C-

AND

KIN 266 Minimum Grade: P

6 Credits of:

Outdoor Education and Stewardship Discipline Courses

OES 263 - Mountain Biking

2 Credit(s)

This intermediate level course provides students with an in-depth understanding of riding skills essential for more advanced riding. This course will cover mountain bike riding techniques, safety and risk management, maintenance, bike packing, and other intermediate to advanced biking skills. Field trips are required.

Prerequisite(s):

OES 123 Minimum Grade: P

OES 264 - Rock Climbing

2 Credit(s)

This course will build upon basic rock climbing skills and introduce a variety of techniques and systems to expand the climbers skill sets. Topics include climber safety, Leave No Trace for climbers, trip and route planning, equipment selection, protection and anchors, lead climbing, rappelling, 3rd and 4th class terrain, transitions, and basic assistance and rescue skills. Field trips are required.

Prerequisite(s):

OES 121 Minimum Grade: P

OES 265 - Ice Climbing

2 Credit(s)

This course will build upon basic ice climbing skills and introduce a variety of techniques and systems to expand the climbers skill sets. Topics include climber safety, Leave No Trace for ice climbers, trip and route planning, equipment selection and maintenance, protection and anchors, following and lead ice, rappelling, 3rd and 4th class terrain, transitions, and basic assistance and rescue skills. Field trips are required.

Prerequisite(s):

OES 126 Minimum Grade: C

OES 270 - Whitewater Kayaking

2 Credit(s)

This course will cover whitewater skills for kayaking for rivers up to class III/IV whitewater. Course includes topics on boater safety, equipment use and care, paddling strokes and maneuvers, reading the river, setup of rapids, rescue skills, planning river trips, planning kayaking trips. Field trips are required.

Prerequisite(s):

OES 124 Minimum Grade: P

OES 330 - Advanced Technical Course

2 Credit(s)

The advanced technical course builds upon a students activity and site management skills. Students will advance their skills in a particular discipline learning more advanced techniques and systems and challenging their abilities. Topics will vary each semester between rock climbing, paddle sports, alpine climbing, canyoneering, bike packing, and ski mountaineering. Instructor approval required. Field Trips Required

Prerequisite(s):

OES 261 Minimum Grade: C-

7 Credits of:

Site Management Courses

OES 262 - Climbing Wall Instructor

1 Credit(s)

The Climbing Wall Instructor Course provides students with an in-depth and standardized understanding of the skills essential to teaching climbing in an indoor setting. It is the first step in a sequential approach to professional climbing instructor development. The course reinforces the importance of teaching technically accurate information and debunks many common climbing myths. The course emphasizes the presentation of sound fundamental skills to climbing gym participants, the formation of risk assessment and risk management skills and basic problem-solving skills such as belay transitions and on wall coaching and assist techniques.

Prerequisite(s):

OES 121 Minimum Grade: C-

OES 327 - Snowpack and Terrain Assessment

3 Credit(s)

This course will introduce students to the complex decision-making required for navigating and recreating in the winter. This course includes topics on proper winter clothing and equipment, equipment use and care, avalanche terrain assessment, snowpack assessment, stability tests, avalanche forecasting, and companion rescue. Field trips are required.

Prerequisite(s):

OES 125 Minimum Grade: P

AND

OES 261 Minimum Grade: C-

OES 331 - Climbing Site Management

3 Credit(s)

This course develops students capabilities as instructors for rock and ice climbing programs. Emphasis is placed on the management of top-rope climbing sites and providing instruction for both rock and ice climbing. The course includes topics on technical systems, assistance and rescue skills, risk management for climbing sites, teaching climbing movement and basic skills, and assessment. Students will practice designing and leading climbing experiences in a variety of locations for rock and ice climbing. Field trips are required.

OES 332 - Paddle Sports Site Mngmnt

3 Credit(s)

This course will cover the management and instruction of whitewater paddling on rivers up to class III. Course includes topics on boater safety, equipment use and care, paddling strokes and maneuvers, reading the river, setup of rapids, rescue skills, planning river trips, designing paddling experiences, and managing clients. Field trips are required.

OES 333 - Outfitter and Guide Site Management

3 Credit(s)

This course will cover the application of program design and management skills to outfitting and guiding for hunting and fishing operations. Course includes content related to guide and client safety, equipment use and care, navigation, weather assessment, emergency response, trip planning and logistics, regulations and permitting, and maximizing client rewards. Field trips are required.

Prerequisite(s):

OES 200 Minimum Grade: C OR T

AND

OES 261 Minimum Grade: C OR T

Required Support Courses for Outdoor Education and Stewardship (9 Credits)

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18

Completion of Required Certification Course

- Wilderness First Responder

Total Credit Hours: 71

Bachelor of Arts in Outdoor Education and Stewardship, Environmental Education Emphasis

Go to: Outdoor Education and Stewardship

Outdoor Education and Stewardship Core Courses (31 Credits)

OES 101 - Outdoor Recreation Essentials

3 Credit(s)

This course is a general introduction to outdoor recreation history, theories, natural resource management, and current trends in the outdoor recreation industry. Students are also introduced to essential outdoor skills for camping and backpacking including trip planning, equipment selection and care, food preparation, Leave No Trace environmental ethics, and risk management. Field trips are required including overnight trips.

OES 200 - Foundations of Outdoor Leadership

3 Credit(s)

This course is an overview of the history, theories, concepts, and practices that constitute outdoor leadership

professional practice. Students learn a competency based approach to the development of an outdoor leader. Topics include historical and philosophical foundations of outdoor recreation and education, theories of leadership, judgment and decision making, teaching and facilitation, safety and risk management, and environmental stewardship. Field trips are required.

OES 261 - Outdoor Leadership Expedition

6 Credit(s)

This course is a field immersion experience to develop and practice outdoor leadership. Students participate in a two week backpacking expedition to learn and apply principles and strategies for minimum impact environmental ethics, risk management, teaching, and leadership. Field trips required.

Prerequisite(s):

OES 200 Minimum Grade: C-

KIN 266 - Wilderness First Aid (WFA)

1 Credit(s)

The course is designed to introduce you to the concepts of medical care in a wilderness setting. The course focuses on Basic Life Support skills, minor trauma, selected environmental topics, spine assessment and the ruling out process, allergic and toxic reactions, and "common" medical emergencies.

OES 269 - Observing Nature

3 Credit(s)

Through field experiences both on campus and off, students learn to carefully observe the natural environment, identify local flora and fauna, and keep a naturalists field journal. Meets once a week for 2 hours. Field trips are required.

OES 367 - Experiential Learning and Facilitation

3 Credit(s)

This course explores the intersectionality of various disciplines that have influenced the field of experiential education. Students will consider distinctions between teaching and facilitation, wrestle with the challenges posed by the learning process, investigate the complexities involved in change and conflict, and develop skills for facilitating individual growth and group development. Additionally, students will practice facilitating group games, initiatives, meetings, challenges and other activities that focus on intrapersonal and interpersonal growth and development.

Prerequisite(s):

OES 200 Minimum Grade: C-

OES 370 - Wildland Recreation Management

2 Credit(s)

This course immerses students into the field of recreation ecology. Hands-on experience participating in local stewardship projects with federal and state agencies will be a component of the course. Students will gain knowledge and experience with how agencies and organizations identify recreational impact oriented problems, collect data,

prioritize, allocate resources, and collaborate to accomplish conservation and stewardship objectives. Students will practice with professional approaches and strategies for planning and monitoring recreational use. Students are required to participate in a variety of learning experiences in various locations throughout the San Luis Valley.

Co-requisite(s): OES 370L

OES 370L - Wildland Recreation Management Field Lab

1 Credit(s)

This is the field based lab for OES 370. Students will travel off-campus to various sites for field application of course content, meeting with land managers, and conducting research.

Co-requisite(s): OES 370

OES 450 - Program Design and Management

3 Credit(s)

To manage an outdoor program, outdoor leaders must add to their field based competencies and experience specific skill sets for effective oversight, support, and leadership. Program managers are responsible for a variety of critical administrative functions that ultimately lead to the effective delivery and risk management of outdoor programs. Students in this course will begin developing their administrative competencies including program design, risk management, budgeting, permitting, staff training, program assessment, incident response and more.

Prerequisite(s):

OES 200 Minimum Grade: C-
AND

OES 367 Minimum Grade: C-

OES 451 - Outdoor Education and Stewardship Internship

3 Credit(s)

To enhance and apply program skills, students will complete a 400-hour internship. To receive credit, students must document their hours and complete required internship assignments. Approval of internship by instructor is required.

Prerequisite(s):

OES 450 Minimum Grade: C-

OES 480 - Capstone Seminar in Outdoor Education and Stewardship

3 Credit(s)

In this course students will complete a signature project that demonstrates the culmination of their program work and experiences. During the course students will also investigate emergent trends, issues, and challenges related to outdoor education and recreation. Students will select a project of interest with the assistance of a faculty member. Project types include curriculum development, program design, original research, or volunteer service project. Students will also finalize and submit their ePortfolio.

Prerequisite(s):

OES 450 Minimum Grade: C-
AND

OES 451 Minimum Grade: C-

Environmental Science Courses (17 Credits)

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T
OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 212 - Natural Resource Management on Public Lands

3 Credit(s)

This course will examine public lands management from both a theoretical and descriptive perspective. The major political forces affecting public lands, and the specific details of energy policy, forests, rangelands, national parks, and wildlife on public lands are discussed.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

OR

BIOL 330 Minimum Grade: C-

GSCI 307 - Bio-Geography

3 Credit(s)

The course builds upon topics introduced in the introductory physical geography and general biology courses and synthesizes concepts addressed in other upper-division courses dealing with vegetation science, climatology, soil, historical geology, ecology, and evolution to explain patterns and processes influencing past and present distributions of organisms.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

AND

BIOL 209 Minimum Grade: C-

BIOL 314 - Conservation Biology

3 Credit(s)

Conservation biology is the study of how to preserve the world's biological and genetic diversity while maintaining functional ecosystems. The course will explore these issues using an integrated approach with emphasis on identifying ways that wildlife and humans can sustainably coexist.

Prerequisite(s):

BIOL 330 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T
AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

People and Culture Requirements (6 Credits)

ENG 420 - Environmental Literature

3 Credit(s)

This course is a survey of environmental literature poetry, fiction, and non-fiction spanning from the beginning of the conservation movement with Thoreau through the modern environmental movement with Carson, and to the present day with a focus on sustainability and the Southwestern United States with attention paid to the environmental impacts on indigenous populations and minority groups and authors, particularly Latinx. Students will analyze, criticize, reflect, and write about the reading, but also reflect upon field visits to farms, ranches, monuments, and parks throughout the region.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

ENVIRONMENTAL EDUCATION EMPHASIS (17 Credits total)

Additional Environmental Science Courses (9 Credits)

A minimum of 1 course from each prefix is required:

BIOL 467 - Wildlife Management

3 Credit(s)

Study of the ecological foundation, historical development, techniques, and current perspectives and challenges in wildlife management. Emphasis will be on the application of scientific management of game and non-game animals, their habitats, and managing human use of wildlife. Course includes three hours of lecture per week and is offered during fall term of even-numbered years. MATH 205 is recommended.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T
AND

BIOL 325 Minimum Grade: C- OR T
AND

BIOL 330 Minimum Grade: C- OR T
AND

BIOL 332 Minimum Grade: C- OR T
OR

BIOL 330 Minimum Grade: C- OR T
AND

GSCI 212 Minimum Grade: C- OR T OR

BIOL 468 - Vegetation/Habitat Management

3 Credit(s)

A study of the composition, structure and productivity of vegetation with emphasis on ecological applications in creating and managing wildlife habitat.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

OR

BIOL 330 Minimum Grade: C- OR T

AND

GEOG 212 Minimum Grade: C- OR T

BIOL 469 - Fisheries Management

3 Credit(s)

A study of the ecological foundation, historical development, techniques, and current perspectives and challenges in inland fisheries management. Emphasis will be on the application of scientific management of fishes, their habitats, and managing human use of inland fisheries. Fisheries Management does not include a separate laboratory section, but will include various field trips to give students the opportunity to observe and apply management techniques discussed in class.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BUS 384 - Natural Resources/Water Law

3 Credit(s)

The goal of this course is to provide students with knowledge of the regulatory responsibilities related to agriculture production and operations with respect to natural resources and water. The course will cover federal, state, and local requirements as well as application to agribusiness endeavors.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 211 Minimum Grade: C- OR T

GSCI 201 - Introduction to Cartography and GIS

3 Credit(s)

This course will introduce students to the core concepts of Geographic Information Systems (GIS) and the importance and relevance of GIS in today's world. Students will learn what GIS is, what it is used for, and how to perform basic and core tasks involving GIS analysis. An objective is to help students develop the ability to think critically about cartographic processes and representations as well as develop their skills in creating maps. Students are expected to have basic computer proficiency prior to enrolling in this course.

GSCI 311 - Climatology

4 Credit(s)

This course examines the global patterns of climate and the processes that shape them. Particular attention is given to climate change mechanisms (past & present), human-induced changes to the climate system, and likely future climates. Field- and computer-based methodology relevant to the field of climatology is also emphasized.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 330 - Nature and Properties of Soils

4 Credit(s)

This course analyzes soils as natural bodies and managed resources, focusing on impacts of landforms, hydrology, nutrients, and organisms on soils. The laboratory includes analysis of soil patterns, methods of sampling, and techniques of determining physical and chemical properties of soils. Course includes three hours of lecture and two hours of laboratory per week.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T
AND

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

GSCI 420 - Remote Sensing

4 Credit(s)

The course considers acquisition and interpretation of remote sensed environmental data, theory and sensors, and manual and computerized interpretation methods.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T
AND

GSCI 201 Minimum Grade: C- OR T

GSCI 440 - Groundwater

4 Credit(s)

This course explores the groundwater system and its relationship with surface water systems of rivers, lakes, and oceans.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620 and GSCI 112 Minimum Grade: C- or T

3 Credits from:

Outdoor Skill Electives

OES 122 - Introduction to Canoeing and Stand-up Paddleboard (SUP)

1 Credit(s)

This course is designed to give students a foundation of skills for running non-whitewater rivers in a canoe or Stand-up Paddleboard (SUP). Students will learn basic paddling skills, river reading, equipment selection and use, and rescue techniques.

OES 123 - Introduction to Mountain Biking

1 Credit(s)

This course will provide students the fundamental skills necessary to ride a mountain bike. Participants will go through all of the beginner and intermediate skills required to handle a mountain bike as well as learn how to assess and navigate various terrain.

OES 124 - Introduction to Kayaking

1 Credit(s)

This course is designed to give students the fundamental skills for running class II rivers in a whitewater kayak. Students will learn basic paddling skills, river reading, equipment selection, and rescue techniques.

OES 125 - Winter Recreation Essentials

1 Credit(s)

This course introduces students to the essential knowledge and skills for winter travel and camping. Students will learn techniques for setting up camp and living outside in the snow giving student's confidence in their ability to enjoy recreation in the winter environment. Field trip is required.

OES 126 - Introduction to Ice Climbing

1 Credit(s)

This course is an introduction to the techniques, concepts, and practices of ice climbing. Students will learn basic skills including proper clothing selection, ice climbing equipment use and maintenance, route selection, and the fundamentals of movement on ice. Field trip required.

Prerequisite(s):

OES 121 Minimum Grade: P

OES 127 - Trail Stewardship

1 Credit(s)

This course is an introduction to the techniques, concepts, and practices of trail stewardship. Participation in a local volunteer trail project will be a primary part of this course.

OES 310 - Snow Mountaineering

1 Credit(s)

This course is an introduction to climbing in the alpine environment. Students learn skills and techniques for travel on snow and in 3rd and 4th class terrain. Field trips are required.

Prerequisite(s):

OES 264 Minimum Grade: C-
AND

OES 265 Minimum Grade: C-
AND

OES 327 Minimum Grade: C-
AND

KIN 266 Minimum Grade: P

2 Credits from:

Outdoor Education and Stewardship Discipline Courses

OES 263 - Mountain Biking

2 Credit(s)

This intermediate level course provides students with an in-depth understanding of riding skills essential for more advanced riding. This course will cover mountain bike riding techniques, safety and risk management, maintenance, bike packing, and other intermediate to advanced biking skills. Field trips are required.

Prerequisite(s):

OES 123 Minimum Grade: P

OES 264 - Rock Climbing

2 Credit(s)

This course will build upon basic rock climbing skills and introduce a variety of techniques and systems to expand the climbers skill sets. Topics include climber safety, Leave No Trace for climbers, trip and route planning, equipment selection, protection and anchors, lead climbing, rappelling, 3rd and 4th class terrain, transitions, and basic assistance and rescue skills. Field trips are required.

Prerequisite(s):

OES 121 Minimum Grade: P

OES 265 - Ice Climbing

2 Credit(s)

This course will build upon basic ice climbing skills and introduce a variety of techniques and systems to expand the climbers skill sets. Topics include climber safety, Leave No Trace for ice climbers, trip and route planning, equipment selection and maintenance, protection and anchors, following and lead ice, rappelling, 3rd and 4th class terrain, transitions, and basic assistance and rescue skills. Field trips are required.

Prerequisite(s):

OES 126 Minimum Grade: C

OES 270 - Whitewater Kayaking

2 Credit(s)

This course will cover whitewater skills for kayaking for rivers up to class III/IV whitewater. Course includes topics on boater safety, equipment use and care, paddling strokes and maneuvers, reading the river, setup of rapids, rescue skills, planning river trips, planning kayaking trips. Field trips are required.

Prerequisite(s):

OES 124 Minimum Grade: P

OES 330 - Advanced Technical Course

2 Credit(s)

The advanced technical course builds upon a students activity and site management skills. Students will advance their skills in a particular discipline learning more advanced techniques and systems and challenging their abilities. Topics will vary each semester between rock climbing, paddle sports, alpine climbing, canyoneering, bike packing, and ski mountaineering. Instructor approval required. Field Trips Required

Prerequisite(s):

OES 261 Minimum Grade: C-

3 Credits from:

Site Management Courses

OES 262 - Climbing Wall Instructor

1 Credit(s)

The Climbing Wall Instructor Course provides students with an in-depth and standardized understanding of the skills essential to teaching climbing in an indoor setting. It is the first step in a sequential approach to professional climbing instructor development. The course reinforces the importance of teaching technically accurate information and debunks many common climbing myths. The course emphasizes the presentation of sound fundamental skills to climbing gym participants, the formation of risk assessment and risk management skills and basic problem-solving skills such as belay transitions and on wall coaching and assist techniques.

Prerequisite(s):

OES 121 Minimum Grade: C-

OES 327 - Snowpack and Terrain Assessment

3 Credit(s)

This course will introduce students to the complex decision-making required for navigating and recreating in the

winter. This course includes topics on proper winter clothing and equipment, equipment use and care, avalanche terrain assessment, snowpack assessment, stability tests, avalanche forecasting, and companion rescue. Field trips are required.

Prerequisite(s):

OES 125 Minimum Grade: P

AND

OES 261 Minimum Grade: C-

OES 331 - Climbing Site Management

3 Credit(s)

This course develops students capabilities as instructors for rock and ice climbing programs. Emphasis is placed on the management of top-rope climbing sites and providing instruction for both rock and ice climbing. The course includes topics on technical systems, assistance and rescue skills, risk management for climbing sites, teaching climbing movement and basic skills, and assessment. Students will practice designing and leading climbing experiences in a variety of locations for rock and ice climbing. Field trips are required.

OES 332 - Paddle Sports Site Mngmnt

3 Credit(s)

This course will cover the management and instruction of whitewater paddling on rivers up to class III. Course includes topics on boater safety, equipment use and care, paddling strokes and maneuvers, reading the river, setup of rapids, rescue skills, planning river trips, designing paddling experiences, and managing clients. Field trips are required.

OES 333 - Outfitter and Guide Site Management

3 Credit(s)

This course will cover the application of program design and management skills to outfitting and guiding for hunting and fishing operations. Course includes content related to guide and client safety, equipment use and care, navigation, weather assessment, emergency response, trip planning and logistics, regulations and permitting, and maximizing client rewards. Field trips are required.

Prerequisite(s):

OES 200 Minimum Grade: C OR T

AND

OES 261 Minimum Grade: C OR T

Required Support Courses for Outdoor Education and Stewardship (9 Credits)

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of

geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1
OR ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score:
18

Total Credits: 71

Bachelor of Arts in Psychology

Bachelor of Arts in Psychology Required Courses

At Least 12 Credits Must Be Completed at Adams State:

PSYC 204 - Child Development

3 Credit(s)

The goal of this course is to examine the interaction of heredity and environment on human development from conception through pre-adolescence. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Some topics include the birth process, early cognitive and language development, gender socialization, the impact of parenting styles, and moral reasoning.

Prerequisite(s):

PSYC 101 Minimum Grade: C or T

PSYC 205 - Adolescent and Adult Development

3 Credit(s)

This course continues the study of life-span development from adolescence through old age and death. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Topics include identity formation, sexual orientation, marriage, models of aging, changes in cognition, social developments, and coping with old age.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 211 - Introduction to Statistics Lecture/Lab

4 Credit(s)

In this course, students will develop a working appreciation of statistical concepts and applications as employed in the behavioral sciences. The course presents descriptive and inferential statistics and their applications. The laboratory component of this course gives students an opportunity to develop skills in using statistical software.

Prerequisite(s):

PSYC 101 Minimum Grade: C- or T

AND

MATH 97 Minimum Grade: S-A or S-B or S-C or T

OR

MATH 99 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 121 Minimum Grade: C- or T

OR

MATH 140 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

PSYC 230 - Psychology of Mental Health

3 Credit(s)

The purpose of this course is to provide students with the historical and social background necessary to understand mental health issues. Students will examine the psychodynamic, behavioral, and cognitive approaches related to the development and treatment of mental disorders and their classifications. Topics will include schizophrenia, depression, bipolar, and personality disorders.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 245 - Brain and Behavior

3 Credit(s)

This course provides students with a basic overview of the biological processes underlying human behavior. This course begins by presenting fundamental nervous system structure and processes and concludes by examining the role of biology in complex behaviors. Clinical case studies are used to illustrate psychological and neurological disorders. Sample topics include evolution and genetics, neural communication, major brain structures and their functions, human brain damage, sleep and dreaming, drug addiction, memory and amnesia, and stress and illness.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 265 - Personalities in Perspective

3 Credit(s)

This course provides an introduction to the psychodynamic, trait, behavioral, biological, cognitive and humanistic approaches to personality. Specific theories and current research within each approach are reviewed. The course covers such theorists as Freud, Jung, Erikson, Skinner, Bandura, Cattell, Allport, and May.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 330 - Professional Seminar

1 Credit(s)

This course provides psychology majors with an overview of careers and opportunities in the field of psychology. Educational requirements, career opportunities, and professional and ethical issues are discussed.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

OR

PSYC 205 Minimum Grade: C- OR T

PSYC 355 - Research Methods in Psychology

4 Credit(s)

This course focuses on the procedures and potential problems associated with research in the behavioral sciences. Students learn how to develop research questions, choose an appropriate research design, collect and analyze data using statistical software, interpret results, and write a report using APA style. The laboratory component provides supervised hands-on experience in project development.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

LS 225 Minimum Grade: C- OR T

PSYC 414 - Cognitive Psychology

3 Credit(s)

This course presents the scientific study of the basic phenomena, concepts, and processes and neurology involved in perception, attention, memory, and higher cognitive functions. Cognitive theory and research methods are used in interpreting cognitive phenomena.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 468 - History and Systems of Psychology

3 Credit(s)

The goals of this course are to examine the origins of modern psychology and to explore how many of psychology's modern concerns are manifestations of continuing issues that have been part of Western psychology for hundreds of years. Course topics include the development of modern science and experimentalism, Darwinian influences, functionalism, behaviorism, cognitivism, the psychoanalytic tradition, humanism, and psychobiology.

Prerequisite(s):

PSYC 101 Minimum Grade: C- or T
AND

PSYC 204 Minimum Grade: C- or T

AND

PSYC 205 Minimum Grade: C- or T

AND

PSYC 211 Minimum Grade: C- or T

PSYC 496 - Capstone: Internship in Psychology

1 to 15 Credit(s)

Senior psychology majors will gain applied experience in psychology by volunteering for a service organization.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T
AND

PSYC 205 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T
AND

PSYC 330 Minimum Grade: C- OR T
AND

PSYC 355 Minimum Grade: C- OR T

OR

PSYC 497 - Capstone Research Thesis I

2 Credit(s)

Students enrolling in the course will develop a research thesis under the guidance of a faculty member of the Psychology Department. Students will complete a written thesis proposal, and prepare and submit an application to conduct research to the Institutional Review Board (IRB). The course involves one hour per week of class contact where aspects of research methods will be reviewed, including developing the research question, hypothesis, choosing appropriate methods, and IRB submission.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T
AND

PSYC 355 Minimum Grade: C- OR T

PSYC 498 - Capstone Research Thesis II

3 Credit(s)

Students enrolling in the course will conduct a research thesis under the guidance of a faculty member of the Psychology Department. Students will conduct primary empirical research, write a final thesis in APA format, and present an oral defense to the psychology faculty.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

AND

PSYC 497 Minimum Grade: C-

6 Credits of Electives from the following

PSYC 386 - Theory and Practice

3 Credit(s)

This course presents the historical underpinnings of the major theories and principles of learning, and how they are used in applied settings. Classic learning theories are contrasted with contemporary approaches. Students will learn cognitive behavioral assessment and intervention strategies. Topics include traditional behavior modification, as well as contemporary social learning theory and cognitive-behavioral change strategies.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 410 - Social Psychology

3 Credit(s)

This course will examine how social processes impact thoughts, feelings, and behavior through the survey of theory and research. Topics will include attraction, aggression, helping, obedience, attitudes, and prejudice.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 416 - Biological Psychology

3 Credit(s)

This course provides a more thorough examination of the biological basis of human behavior. The biological mechanisms of behavior are emphasized as well as the evolution, genetics, and adaptiveness of behavioral processes. The impact on society of recent developments in neuroscience is also examined.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 455 - Evolutionary Psychology

3 Credit(s)

This course provides students with a detailed and thorough examination of the impact of evolution on human behavior and mental processes. An emphasis using animal behavior and evolutionary processes as a model for understanding human behavior will be utilized. Students will also be exposed to a variety of topics including, the importance of science, the evidence for evolution, selective breeding, genetic and ecological contributions to behavior, the biological constraints on learning, the development of higher mental processes, complex social behavior, and sex differences in mating behavior and cognition.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 458 - Sensation and Perception

3 Credit(s)

This course examines the physiological and behavioral components of basic sensory processes and the role they play in perception. These sensory systems include vision, audition, the somatic senses (i.e., touch, temperature, and pain) and the chemical senses (i.e., taste and smell). The development and clinical aspects of these sensory systems are also studied. Sample topics include receptors and neural processing, color perception, depth and size perception, perception of movement, speech perception, and the perception of pitch.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

Plus 6 Credits Of 300 to 400 Level Psychology Electives

All Psychology Majors

Must participate in an exit interview with a committee of psychology faculty (arranged with advisor).

Bachelor of Arts in Psychology, Clinical Psychology Emphasis

Go to: Psychology

Bachelor of Arts in Psychology Required Courses

At Least 12 Credits Must Be Completed at Adams State:

PSYC 204 - Child Development

3 Credit(s)

The goal of this course is to examine the interaction of heredity and environment on human development from conception through pre-adolescence. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Some topics include the birth process, early cognitive and language development, gender socialization, the impact of parenting styles, and moral reasoning.

Prerequisite(s):

PSYC 101 Minimum Grade: C or T

PSYC 205 - Adolescent and Adult Development

3 Credit(s)

This course continues the study of life-span development from adolescence through old age and death. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Topics include identity formation, sexual orientation, marriage, models of aging, changes in cognition, social developments, and coping with old age.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 211 - Introduction to Statistics Lecture/Lab

4 Credit(s)

In this course, students will develop a working appreciation of statistical concepts and applications as employed in the behavioral sciences. The course presents descriptive and inferential statistics and their applications. The laboratory component of this course gives students an opportunity to develop skills in using statistical software.

Prerequisite(s):

PSYC 101 Minimum Grade: C- or T

AND

MATH 97 Minimum Grade: S-A or S-B or S-C or T

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MATH 99 Minimum Grade: C- or T

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MATH 104 Minimum Grade: C- or T

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MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

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MATH 121 Minimum Grade: C- or T

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MATH 140 Minimum Grade: C- or T

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ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

PSYC 230 - Psychology of Mental Health

3 Credit(s)

The purpose of this course is to provide students with the historical and social background necessary to understand mental health issues. Students will examine the psychodynamic, behavioral, and cognitive approaches related to the development and treatment of mental disorders and their classifications. Topics will include schizophrenia, depression, bipolar, and personality disorders.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 245 - Brain and Behavior

3 Credit(s)

This course provides students with a basic overview of the biological processes underlying human behavior. This course begins by presenting fundamental nervous system structure and processes and concludes by examining the role of biology in complex behaviors. Clinical case studies are used to illustrate psychological and neurological disorders. Sample topics include evolution and genetics, neural communication, major brain structures and their functions, human brain damage, sleep and dreaming, drug addiction, memory and amnesia, and stress and illness.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 265 - Personalities in Perspective

3 Credit(s)

This course provides an introduction to the psychodynamic, trait, behavioral, biological, cognitive and humanistic

approaches to personality. Specific theories and current research within each approach are reviewed. The course covers such theorists as Freud, Jung, Erikson, Skinner, Bandura, Cattell, Allport, and May.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 330 - Professional Seminar

1 Credit(s)

This course provides psychology majors with an overview of careers and opportunities in the field of psychology. Educational requirements, career opportunities, and professional and ethical issues are discussed.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

OR

PSYC 205 Minimum Grade: C- OR T

PSYC 355 - Research Methods in Psychology

4 Credit(s)

This course focuses on the procedures and potential problems associated with research in the behavioral sciences. Students learn how to develop research questions, choose an appropriate research design, collect and analyze data using statistical software, interpret results, and write a report using APA style. The laboratory component provides supervised hands-on experience in project development.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

LS 225 Minimum Grade: C- OR T

PSYC 414 - Cognitive Psychology

3 Credit(s)

This course presents the scientific study of the basic phenomena, concepts, and processes and neurology involved in perception, attention, memory, and higher cognitive functions. Cognitive theory and research methods are used in interpreting cognitive phenomena.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 468 - History and Systems of Psychology

3 Credit(s)

The goals of this course are to examine the origins of modern psychology and to explore how many of psychology's modern concerns are manifestations of continuing issues that have been part of Western psychology for hundreds of years. Course topics include the development of modern science and experimentalism, Darwinian influences, functionalism, behaviorism, cognitivism, the psychoanalytic tradition, humanism, and psychobiology.

Prerequisite(s):

PSYC 101 Minimum Grade: C- or T

AND

PSYC 204 Minimum Grade: C- or T

AND

PSYC 205 Minimum Grade: C- or T

AND

PSYC 211 Minimum Grade: C- or T

PSYC 496 - Capstone: Internship in Psychology

1 to 15 Credit(s)

Senior psychology majors will gain applied experience in psychology by volunteering for a service organization.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 330 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

OR

PSYC 497 - Capstone Research Thesis I

2 Credit(s)

Students enrolling in the course will develop a research thesis under the guidance of a faculty member of the Psychology Department. Students will complete a written thesis proposal, and prepare and submit an application to conduct research to the Institutional Review Board (IRB). The course involves one hour per week of class contact where aspects of research methods will be reviewed, including developing the research question, hypothesis, choosing appropriate methods, and IRB submission.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 498 - Capstone Research Thesis II

3 Credit(s)

Students enrolling in the course will conduct a research thesis under the guidance of a faculty member of the Psychology Department. Students will conduct primary empirical research, write a final thesis in APA format, and present an oral defense to the psychology faculty.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

AND

PSYC 497 Minimum Grade: C-

6 Credits of Electives from the following

PSYC 386 - Theory and Practice

3 Credit(s)

This course presents the historical underpinnings of the major theories and principles of learning, and how they are used in applied settings. Classic learning theories are contrasted with contemporary approaches. Students will learn cognitive behavioral assessment and intervention strategies. Topics include traditional behavior modification, as well as contemporary social learning theory and cognitive-behavioral change strategies.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 410 - Social Psychology

3 Credit(s)

This course will examine how social processes impact thoughts, feelings, and behavior through the survey of theory and research. Topics will include attraction, aggression, helping, obedience, attitudes, and prejudice.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 416 - Biological Psychology

3 Credit(s)

This course provides a more thorough examination of the biological basis of human behavior. The biological mechanisms of behavior are emphasized as well as the evolution, genetics, and adaptiveness of behavioral processes. The impact on society of recent developments in neuroscience is also examined.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 455 - Evolutionary Psychology**3 Credit(s)**

This course provides students with a detailed and thorough examination of the impact of evolution on human behavior and mental processes. An emphasis using animal behavior and evolutionary processes as a model for understanding human behavior will be utilized. Students will also be exposed to a variety of topics including, the importance of science, the evidence for evolution, selective breeding, genetic and ecological contributions to behavior, the biological constraints on learning, the development of higher mental processes, complex social behavior, and sex differences in mating behavior and cognition.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 458 - Sensation and Perception**3 Credit(s)**

This course examines the physiological and behavioral components of basic sensory processes and the role they play in perception. These sensory systems include vision, audition, the somatic senses (i.e., touch, temperature, and pain) and the chemical senses (i.e., taste and smell). The development and clinical aspects of these sensory systems are also studied. Sample topics include receptors and neural processing, color perception, depth and size perception, perception of movement, speech perception, and the perception of pitch.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

Plus 6 Credits Of 300 to 400 Level Psychology Electives

Emphasis in Clinical Psychology

Completion of the Following Required Courses

COUN 312 - Introduction to Counseling

3 Credit(s)

This course provides an introduction to the profession of counseling and the importance of interpersonal communication skills and self-awareness across a variety of disciplines. Topics include an introduction to different counseling approaches, such as individual, family, and group counseling.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

OR

PSYC 205 Minimum Grade: C- OR T

PSYC 345 - Psychological Testing and Assessment

3 Credit(s)

This course provides students with an introduction to the methods and issues involved in testing and assessment. Various assessment domains are presented including personality, cognitive ability, and interests/values. Topics covered in this course include the historical foundation of assessment, reliability, validity, and test construction and ethical considerations.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

OR

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

PSYC 386 - Theory and Practice

3 Credit(s)

This course presents the historical underpinnings of the major theories and principles of learning, and how they are used in applied settings. Classic learning theories are contrasted with contemporary approaches. Students will learn cognitive behavioral assessment and intervention strategies. Topics include traditional behavior modification, as well as contemporary social learning theory and cognitive-behavioral change strategies.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

Plus 3 Hours from the Following

PSYC 310 - Child and Adolescent Psychopathology

3 Credit(s)

This course provides an examination of the classification, scientific theories, and research regarding abnormal behavior of children and adolescents. Distinctions between adult and childhood disorders will be explored from a developmental perspective. The study of abnormal behavior of children and adolescence (or developmental psychopathology) focuses on nature and development of mental disorders, such as depression, attention-deficit hyperactivity disorder, separation anxiety disorder, the autistic spectrum of disorders, to name just a few. Information regarding the etiology (causes) adult and childhood disorders will be explored.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

PSYC 315 - Multicultural Issues

3 Credit(s)

In this course, students will explore various components of a multicultural society and the impact of social and cultural forces on identity development and formation. The processes of acculturation and assimilation will be discussed. Students will also gain insight into their own cultural experiences in a pluralistic society.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

PSYC 316 - Drugs, Society, and Human Behavior

3 Credit(s)

This course addresses the social, biological, and psychological factors of the major drugs associated with therapeutic and recreational use and abuse. Topics include drug use as a social problem, theories and treatment of addiction, how drugs work, and the detrimental health effects of drug use.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

PSYC 360 - Psychology of Gender

3 Credit(s)

This course will examine gender development from a variety of theoretical approaches, including evolutionary, cognitive, social learning, and cross-cultural. Topics will include how gender influences thinking, communication, interpersonal relationships, education, work, and family.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

Plus 6 Hours from the Following

PSYC 410 - Social Psychology

3 Credit(s)

This course will examine how social processes impact thoughts, feelings, and behavior through the survey of theory and research. Topics will include attraction, aggression, helping, obedience, attitudes, and prejudice.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 455 - Evolutionary Psychology

3 Credit(s)

This course provides students with a detailed and thorough examination of the impact of evolution on human behavior and mental processes. An emphasis using animal behavior and evolutionary processes as a model for understanding human behavior will be utilized. Students will also be exposed to a variety of topics including, the importance of science, the evidence for evolution, selective breeding, genetic and ecological contributions to behavior, the biological constraints on learning, the development of higher mental processes, complex social behavior, and sex differences in mating behavior and cognition.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

PSYC 458 - Sensation and Perception

3 Credit(s)

This course examines the physiological and behavioral components of basic sensory processes and the role they play in perception. These sensory systems include vision, audition, the somatic senses (i.e., touch, temperature, and pain) and the chemical senses (i.e., taste and smell). The development and clinical aspects of these sensory systems are also studied. Sample topics include receptors and neural processing, color perception, depth and size perception, perception of movement, speech perception, and the perception of pitch.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

Overall Total Required Credits for Psychology Major/ Clinical Emphasis (48 Credit Hours)

All Psychology Majors

Must participate in an exit interview with a committee of psychology faculty (arranged with advisor).

Bachelor of Arts in Public Health

Go to: Public Health

Public Health Core (33 Credits)

The Core Courses make use of courses from across the university: Biology, Business, Healthcare Administration, Nursing, Kinesiology, Sociology, and Psychology:

PBHL 100 - Foundations in Public Health

3 Credit(s)

Foundations in Public Health provides students with an overview of essential issues and components related to the field of public health.

PBHL 200 - Social Determinants of Health

3 Credit(s)

The course provides an overview of the social factors which are known to be the most powerful determinants of population health in modern societies, including income, education, race, gender, and support systems that interact to determine health across the lifespan.

Prerequisite(s):

PBHL 100

KIN 314 - Health Promotion

3 Credit(s)

This course examines the various factors that may influence a healthy society: heredity, environment, health care services, and lifestyle choices.

PSYC 315 - Multicultural Issues

3 Credit(s)

In this course, students will explore various components of a multicultural society and the impact of social and cultural forces on identity development and formation. The processes of acculturation and assimilation will be discussed. Students will also gain insight into their own cultural experiences in a pluralistic society.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

OR

SOC 365 - Race and Ethnicity in the U.S.

3 Credit(s)

This course provides a sociological approach to race and ethnic relations in the U.S. today. This course introduces the basic sociological theories and perspectives related to the study of race and ethnicity, the histories, and present status of different racial and ethnic groups in the United States and raises questions about continuing racial discrimination and inequality in our society. Issues of defining race, racial identity, interpersonal and institutional discrimination, segregation, and affirmative action (among others) are explored.

NURS 305 - Transcultural Nursing

3 Credit(s)

This course provides a theoretical framework for the delivery of culturally competent nursing care. The course will enable the nurse to navigate through the obstacles that culture can place on the patient/family experience. Through a presentation of the history and theory behind cultural competence in nursing, the course offers key information regarding health beliefs and the impact of culture on both health and illness. Students must be enrolled in the ASU RN to BSN online program.

OR

NURS 350 - Global Health Nursing

3 Credit(s)

The course uses a multidisciplinary perspective to explore global issues affecting personal, community, and international health and development using approaches from health promotion, population health, and primary health care to help frame analyses. Students are exposed to basic perspectives on health policy issues throughout various geographical regions and how they are affected by significant world events. Students must be enrolled in the ASU RN to BSN online program or ADN Dual Enrollment program.

HCA 311 - Health Care Law and Ethics

3 Credit(s)

This course presents an overview of the legal and ethical issues faced by health care consumers, practitioners, and administrators. The course will introduce students to the legal aspects of health care at the federal, state, and local levels. Topics covered will include criminal and civil claims against health care providers, corporate and individual liability, and legal and ethical decision-making, individual liability, and legal and ethical decision-making. HCA 361 Health Care Administration. Instructor permission.

Prerequisite(s):

BUS 211 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

OR

HCA 480 - Health Care Policy

3 Credit(s)

This course is an introduction to health policy. It will focus on how U.S. health policy is developed and will provide students with a general understanding of the policy making process and debates related major U.S. health care legislations.

Prerequisite(s):

HCA 303 Minimum Grade: C- OR T
AND

HCA 305 Minimum Grade: C- OR T

AND

HCA 363 Minimum Grade: C- OR T

PBHL 300 - Rural Public Health

3 Credit(s)

This course will provide an overview of how Public Health systems operate in rural geographical areas. It provides students with a foundational understanding of rural communities. It then explores rural public health systems and policies, health disparities and special populations and concludes with a final section on advancing rural health through assessment, planning, and intervention.

Prerequisite(s):

PBHL 100

PSYC 380 - Health Psychology

3 Credit(s)

Health Psychology examines the psychosocial factors relevant to health. The course emphasis will be on the contribution of psychological theory to the encouragement of health and wellness and prevention of physical illness. Topics include stress management, health and behavior, chronic and life threatening illness, treatment, and evaluation of health-related research. PSYC 211 recommended.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

HCA 402 - Public and Population Health

3 Credit(s)

This course consists of an examination of epidemiological concepts and methods of studying the distribution and determinants of morbidity and mortality in human population. The knowledge and skills acquired should enable one to understand and critically review scientific literature dealing with epidemiology concepts and measures. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

PBHL 498 - Public Health Capstone**3 Credit(s)**

The Public Health Capstone course provides students with an opportunity to demonstrate synthesis and application of the cumulative skills in public health in a real-world work setting by developing a needed public health intervention. Students will work closely with an area non-profit or health agency to implement a public health intervention that addresses a need in the organization. They will concurrently work with peers and the course instructor to work through key stages of public health program planning and intervention. This course integrates the students classroom learning into a work environment. The student will work closely with a work based supervisor and instructor to identify a work plan that demonstrates accomplishment of program outcomes and specific Adams Outcomes.

Prerequisite(s):

PBHL 300

Quantitative Methods - 6-7 Credits

Quantitative Methods courses ensure that students are well-versed in statistics and data analysis:

MATH 110 - Introduction to Statistics, GT-MA1**3 Credit(s)**

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T
OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

OR

PSYC 211 - Introduction to Statistics Lecture/Lab

4 Credit(s)

In this course, students will develop a working appreciation of statistical concepts and applications as employed in the behavioral sciences. The course presents descriptive and inferential statistics and their applications. The laboratory component of this course gives students an opportunity to develop skills in using statistical software.

Prerequisite(s):

PSYC 101 Minimum Grade: C- or T
AND

MATH 97 Minimum Grade: S-A or S-B or S-C or T

OR

MATH 99 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 121 Minimum Grade: C- or T

OR

MATH 140 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

SOC 311 - Social Statistics

4 Credit(s)

This course presents a general overview of the statistical methods most commonly used in sociology and the social sciences. As a laboratory component, students will become proficient in SPSS, a computer program designed to aid statistical analysis. These skills will enable the student to read popular applications of statistics in the media with a critical eye; assess the use of statistics in the professional sociological literature; and use statistical tools to answer the sociological questions of interest.

Prerequisite(s):

SOC 255 Minimum Grade: C-

AND

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Life Science (7-10 Credits)

Life Science courses in biology and nutrition ensure that students understand the basic tenets of health and the human body:

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 101L - Introductory Biology Lab

0 Credit(s)

Introductory Biology is a one-semester laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

OR

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1**5 Credit(s)**

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

Leadership (9-10 Credits)**BUS 265 - Business Communications****3 Credit(s)**

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- **OR** T

OR

COMM 100 - Public Speaking**3 Credit(s)**

Students will learn the theories behind and the techniques of public speaking. Students will compose, videotape, and upload speeches on various topics and various styles for peer and instructor critique. Students will also learn about the various models of public speaking and the fundamentals of communication theory.

OR

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

HCA 303 - Trends and Issues in Health Care

3 Credit(s)

This course is an introductory Health Care Administration course and will expose the student to the industry and its significant elements and trends of the current health care environment.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 316 - Public and Nonprofit Mgmt

3 Credit(s)

This course is designed to examine public and nonprofit management. This type of management is driven by mission and/or executive/legislative directions. It is not about the bottom line or profit. Students will learn both the theory and practice of public and nonprofit management, using the concept case method and service learning opportunities.

OR

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

OR

BUS 362 - Human Resource Management

3 Credit(s)

Analysis of techniques used to organize, motivate, and manage personnel in public or private organizations. Includes case studies and examines current literature and the current legal environment..

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

Choose 5 Courses of Electives (15 Credits)

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

OR

KIN 301 - Sport and Fitness Nutrition

3 Credit(s)

This course will present a review of basic nutrition. The course will also explore the areas of sport, exercise and fitness nutrition, supplementation, sport drug use and abuse, weight loss diets, eating disorders, weight gain nutrition, body composition, and the metabolic nutritional requirements of various sports and fitness activities.

Prerequisite(s):

KIN-329 Minimum Grade: C- OR T

AND

BIOL-112 Minimum Grade: C- OR T

OR

BIOL-205 Minimum Grade: C- OR T

FOOD 100 - Perspectives on Food

3 Credit(s)

This course is an exploration of the multitude of roles that food plays in the world. Each class will consist of a discussion of food through a different lens, such as culture, history, economy, nutrition, power, medicine, and ecology. The course will be highly discussion based and students will be challenged to explore their own personal relationship with food. Grades will be determined based on class participation, weekly reading reflections, a blog-post, and a food sharing presentation in which you will explore the history, culture and personal meaning of a specific dish.

KIN 120 - Concepts in Wellness

3 Credit(s)

In this course, students will learn about the various dimensions of wellness, assess their own health status, and design interventions to improve personal health through lecture, video, laboratory experiences, and physical activities. This course will also provide students with the information necessary to make evidence-based decisions regarding personal wellness and to understand health disparities among diverse populations. There is a physical activity component to this course.

FOOD 200 - U.S. Food Systems

3 Credit(s)

This course will provide an overview of the U.S. Food System, including the policy, agricultural, and cultural history that has led us to the food system that we have today. The course will include the following topics: the role of policy in shaping the food system; the history and current state of federal governmental food and agricultural programs; food as an industry (production, processing, distribution, sales, advertising, and consumer behavior). We will explore the implication of our current system for health, communities, and the environment.

PSYC 230 - Psychology of Mental Health

3 Credit(s)

The purpose of this course is to provide students with the historical and social background necessary to understand mental health issues. Students will examine the psychodynamic, behavioral, and cognitive approaches related to the development and treatment of mental disorders and their classifications. Topics will include schizophrenia, depression, bipolar, and personality disorders.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 245 - Brain and Behavior

3 Credit(s)

This course provides students with a basic overview of the biological processes underlying human behavior. This course begins by presenting fundamental nervous system structure and processes and concludes by examining the role of biology in complex behaviors. Clinical case studies are used to illustrate psychological and neurological disorders. Sample topics include evolution and genetics, neural communication, major brain structures and their functions, human brain damage, sleep and dreaming, drug addiction, memory and amnesia, and stress and illness.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

FOOD 250 - Community Food Systems

3 Credit(s)

In this course, students will study local food systems, using the San Luis Valley as a case study for a broader understanding of the role of local food systems in community vitality and health. We will explore: the pathways of food from the farm, to the distributor, to consumer, and finally as waste; inequalities in food access within communities; strategies for creating a resilient and sustainable local food system; and the major players in the local food system. Students will be provided with many examples of organizations using creative solutions to food system problems.

Prerequisite(s):

FOOD 100 Minimum Grade: C-
AND

FOOD 200 Minimum Grade: C-

PSYC 316 - Drugs, Society, and Human Behavior

3 Credit(s)

This course addresses the social, biological, and psychological factors of the major drugs associated with therapeutic and recreational use and abuse. Topics include drug use as a social problem, theories and treatment of addiction, how drugs work, and the detrimental health effects of drug use.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

SPAN 316 - Spanish for Health Professions

3 Credit(s)

Instruction in the special vocabulary, grammatical structures and cultural understanding needed to deal effectively with the Spanish speaking patient/health professional interactions. The student will learn to interact in Spanish with a variety of simulated common everyday patient/health personnel situations.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

PSYC 387 - Psychology of Aging

3 Credit(s)

This course will take the psychological, biological, and sociocultural approaches to adult development and aging. Topics will include successful aging, identity development, relationships, memory and cognition, physical aging, retirement, illness, and dying.

Prerequisite(s):

PSYC 101

SOC 305 - Rural Sociology

3 Credit(s)

The purpose of this course is to introduce some of the social, political, environmental, and economic problems and prospects associated with rural America. Special attention will also be given rural community services and social institutions, with some focus on the San Luis Valley and other parts of rural Colorado.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 320 - Marriages and Families

3 Credit(s)

This course will provide an overview of the family from a sociological perspective. The family is considered to be one of the most private and pervasive institutions in society. All of us have had contact with at least one family, and many of us will be involved in several different families during our lifetime. Our experiences point to the numerous transformations in family life. To obtain a better understanding of these changes, recent sociological research and data on the family will be utilized in this course. In addition to examining the history of the family, the course will study the contemporary family and its diversity. The course will examine traditional marriage/family arrangements and alternative processes of mate selection and family formation. Finally, the course will examine parenting, the relationship between work and family, divorce and reconstituted families.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 370 - Poverty and Wealth

3 Credit(s)

This course examines the historical and socio-cultural factors which influence the creation and maintenance of poverty and wealth. Emphasis will be on structural factors and theoretical explanations of poverty and inequality. This course will also focus on the implications for policy and social programs aimed at poverty and other social class issues. In addition, there will be exploration of systems of power, privilege, and domination that are central to the American social structure. Finally, the issues of empowerment, resistance, and solutions to social inequality will be assessed.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

SOC 251 Minimum Grade: C- OR T

SOC 401 - Self & Society

3 Credit(s)

This course will look at social psychology from a sociological perspective. More specifically, students will utilize the symbolic interactionist theory to examine how identities, selves, social life, and social reality are products of ongoing social interactions.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 419 - Gender and Society

3 Credit(s)

The aim of the course is for students to become familiar with the continuing differences and inequalities between women and men in the contemporary United States, and to begin to explain why and how they occur through a sociological lens. Understanding gender as it relates to other social identities (for example, race, class and sexuality) is an important organizing framework of the course. Students will learn about the gendered arrangements in a variety of social contexts such as education, the media, work and the economy, and the family.

HCA 455 - Health Care Economics

3 Credit(s)

This course will examine health care decision-making and the functioning of health care markets in the U.S. The course is not designed as a pure economics theory course but instead emphasizes how you can frame and analyze various health issues using the principles of economics. By doing so, you will gain a powerful new perspective that will help you understand the decisions made by individuals and organizations in the face of scarce resources. Instructor permission.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

ANTH 460 - Medical Anthropology

3 Credit(s)

This course will explore the cross-cultural significance of health and wellness from an anthropological perspective. We will delve into the complex interplay of biological, psychological, social, environmental, and political-economic processes on the concepts of illness, suffering, and healing. Particular emphasis will be placed on the ethnographic approach to the lived context in which wellness and suffering are experienced, narrated, and addressed.

SOC 470 - Social and Public Programs

3 Credit(s)

This course analyzes the historical development, current content, and adequacy of social welfare policies in the United States. Specific policy areas to be discussed include income maintenance (including social insurance and public assistance), mental health, health care, and aging.

Prerequisite(s):

SOC 352 Minimum Grade: C- OR T

Bachelor of Arts in Social Sciences, Forensics Emphasis

Go to: Sociology

The program is designed to provide students with a grounding in factors that address social, psychological, cultural, historical and political differences that impact individuals within the criminal justice system. In addition, we draw on forensic science practices with courses in Anthropology (Forensic Anthropology) and Chemistry (Forensic chemistry). The program will equip students for jobs in the criminal justice system and graduate programs in forensic science.

Core Requirements (48 Credits)

Lower Level Courses

PSYC 265 - Personalities in Perspective

3 Credit(s)

This course provides an introduction to the psychodynamic, trait, behavioral, biological, cognitive and humanistic approaches to personality. Specific theories and current research within each approach are reviewed. The course covers such theorists as Freud, Jung, Erikson, Skinner, Bandura, Cattell, Allport, and May.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 230 - Psychology of Mental Health

3 Credit(s)

The purpose of this course is to provide students with the historical and social background necessary to understand mental health issues. Students will examine the psychodynamic, behavioral, and cognitive approaches related to the development and treatment of mental disorders and their classifications. Topics will include schizophrenia, depression, bipolar, and personality disorders.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

SOC 245 - Criminology

3 Credit(s)

Criminology is an introductory course to the study of crime and criminal behavior with special emphasis on theories of crime and delinquency causation, rates and extent of crime, and social control agents (i.e., the police, courts, and "corrections"). Special topics examined may include gangs, white-collar crimes, property crimes, victimless crimes, and organized crime.

Upper Level Courses

ANTH 360 - Forensic Anthropology

3 Credit(s)

This class examines the science and methods of physical anthropology as it relates to the medico-legal work done to identify unknown human remains in atypical circumstances. This introductory course will introduce students to human osteology and dentition in relation to identifying age, sex, stature, and ancestry, as well as bone pathologies and techniques for estimating time of death and post-mortem changes. As part of the course, some visual materials will depict trauma and decomposition of human remains.

PSYC 315 - Multicultural Issues

3 Credit(s)

In this course, students will explore various components of a multicultural society and the impact of social and cultural forces on identity development and formation. The processes of acculturation and assimilation will be discussed. Students will also gain insight into their own cultural experiences in a pluralistic society.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

PSYC 316 - Drugs, Society, and Human Behavior

3 Credit(s)

This course addresses the social, biological, and psychological factors of the major drugs associated with therapeutic and recreational use and abuse. Topics include drug use as a social problem, theories and treatment of addiction, how drugs work, and the detrimental health effects of drug use.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

SOC 346 - Criminal Justice

3 Credit(s)

The focus of this course is on the organizational structures and social processes of the American criminal justice system. It will examine criminal law, policing, courts, and corrections.

PSYC 355 - Research Methods in Psychology

4 Credit(s)

This course focuses on the procedures and potential problems associated with research in the behavioral sciences. Students learn how to develop research questions, choose an appropriate research design, collect and analyze data using statistical software, interpret results, and write a report using APA style. The laboratory component provides supervised hands-on experience in project development.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

LS 225 Minimum Grade: C- OR T

SOC 347 - Juvenile Delinquency

3 Credit(s)

This course describes the nature of delinquency, including the trends, characteristics, and causes of juvenile delinquency. In addition, the course will examine theories of delinquency, social influences on delinquency, historical and contemporary overviews of the juvenile justice system, and the juvenile justice process from police involvement to the court system and corrections. Finally, methods of treatment and prevention will be identified.

SOC 348 - Women and Crime

3 Credit(s)

This course will address the role women play as criminals, victims, and professionals in the criminal justice system. This course will examine the important intersection between gender and crime, exploring the nature and extent of women's involvement in the criminal justice system. The course will investigate and discuss the relationship between victimization and offending, and study the unique way women are involved in and impacted by the criminal justice system, with case study examples from real crimes.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 395 - Pre-Professional Seminar

2 Credit(s)

This course provides an introduction to the profession of sociology and the various career options available to graduates. Occupational and graduate school options are explored in detail through library research, presentations, observational and volunteer experiences, and informational interviews. Skills for job interviewing, resume development, and professional correspondence are explored.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 444 - Deviance and Control

3 Credit(s)

The sociology of deviance and control examines the nature of rule-making and rule-breaking in modern societies. The course includes theoretical considerations of the causes and consequences of deviance.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 447 - Correctional Systems

3 Credit(s)

This course will focus on corrections as one of the components of the American criminal justice system and its operation within a democratic form of government. The philosophical and historical underpinnings of punishment and correction will be analyzed and compared (e.g., punishment vs. rehabilitation).

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

SOC 346 Minimum Grade: C- OR T

PSYC 410 - Social Psychology

3 Credit(s)

This course will examine how social processes impact thoughts, feelings, and behavior through the survey of theory and research. Topics will include attraction, aggression, helping, obedience, attitudes, and prejudice.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

SOC 493 - Internship in Sociology

3 Credit(s)

Students in Sociology are placed at an internship site in the community and conduct a mentored capstone case study. Ninety hours of service with the agency are required. The student is supervised by both a Sociology faculty member and a representative from the human service agency. Instructor approval required for registration purposes.

Prerequisite(s):

Special permission and senior standing.

PSYC 496 - Capstone: Internship in Psychology

1 to 15 Credit(s)

Senior psychology majors will gain applied experience in psychology by volunteering for a service organization.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 330 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

Recommended Electives (1 needed to meet upper-level requirement of 42 credits)

PSYC 315 - Multicultural Issues

3 Credit(s)

In this course, students will explore various components of a multicultural society and the impact of social and cultural forces on identity development and formation. The processes of acculturation and assimilation will be discussed. Students will also gain insight into their own cultural experiences in a pluralistic society.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

PSYC 375 - Human Sexuality

3 Credit(s)

In this multidisciplinary course, students will be introduced to the physiological, medical, sociological, psychological, legal, ethical, moral, and educational facets of human sexuality. Topics in this course include male and female sexual anatomy and sexual response, contraception and disease control, sexually transmitted diseases, and sexual orientation.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 386 - Theory and Practice

3 Credit(s)

This course presents the historical underpinnings of the major theories and principles of learning, and how they are used in applied settings. Classic learning theories are contrasted with contemporary approaches. Students will learn cognitive behavioral assessment and intervention strategies. Topics include traditional behavior modification, as well as contemporary social learning theory and cognitive-behavioral change strategies.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 410 - Social Psychology

3 Credit(s)

This course will examine how social processes impact thoughts, feelings, and behavior through the survey of theory and research. Topics will include attraction, aggression, helping, obedience, attitudes, and prejudice.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

SOC 318 - Race, Class, and Gender

3 Credit(s)

The focus of this course is on the interrelated ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result and the dynamics of change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 365 - Race and Ethnicity in the U.S.

3 Credit(s)

This course provides a sociological approach to race and ethnic relations in the U.S. today. This course introduces the basic sociological theories and perspectives related to the study of race and ethnicity, the histories, and present status of different racial and ethnic groups in the United States and raises questions about continuing racial discrimination and inequality in our society. Issues of defining race, racial identity, interpersonal and institutional discrimination, segregation, and affirmative action (among others) are explored.

Bachelor of Arts in Social Sciences, Pre-Law Emphasis

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

This program is designed to focus on the skills, values knowledge and experience recognized as important for law school candidates by the American Bar Association. Skills identified as important for a successful career in law include problem solving, critical reading, writing and editing, oral communication, listening, research, public service and promotion of knowledge and direct exposure to the field of law. Thus, the program draws on courses that traditionally underpin law degrees, including history, philosophy and political science. In addition, we draw on a sample of courses from sociology and psychology that provide a fundamental background in the human experience and will enhance our students' abilities to bring a degree of social justice savvy to their pursuits of law.

Required General Education Courses

CHEM 103 - Introduction to Forensic Chemistry GT-SC1

4 Credit(s)

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T
OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

OR

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

Lower Level Courses

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

PHIL 202 - Ethics

3 Credit(s)

An examination of criteria governing ethical responses in typical situations as presented by representative thinkers. The application of principles in the development of reasonable standards of conduct and in the formulation of codes of ethics.

POLS 280 - Introduction to Model UN

1 to 6 Credit(s)

This course provides a hands-on introduction to international diplomacy and the inner workings of the United Nations. Students will engage in simulations of current global debates on issues such as violent conflict, human rights and poverty.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

PSYC 230 - Psychology of Mental Health

3 Credit(s)

The purpose of this course is to provide students with the historical and social background necessary to understand mental health issues. Students will examine the psychodynamic, behavioral, and cognitive approaches related to the development and treatment of mental disorders and their classifications. Topics will include schizophrenia, depression, bipolar, and personality disorders.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

SOC 245 - Criminology

3 Credit(s)

Criminology is an introductory course to the study of crime and criminal behavior with special emphasis on theories of crime and delinquency causation, rates and extent of crime, and social control agents (i.e., the police, courts, and "corrections"). Special topics examined may include gangs, white-collar crimes, property crimes, victimless crimes, and organized crime.

Upper Level Courses

COMM 457 - First Amendment and Copyright

3 Credit(s)

This course explores the First Amendment of the U.S. Constitution and current U.S. copyright laws, and how they apply to and affect both media practitioners and U.S. citizens.

Prerequisite(s):

COMM 255 Minimum Grade: C- OR T
AND

COMM 275 Minimum Grade: C- OR T

HIST 324 - History of American Business

3 Credit(s)

This course will examine the rise and evolution of U.S. business and capitalism from the founding of the country to the present. It will trace the development of business from early industries such as railroads, banking, and manufacturing through the rise of today's key industries such as automobiles, airlines, and technology corporations. It will also seek to understand the development of the macro-economy through the development of fiscal and monetary policy, and issues of labor.

HIST 420 - US Constitutional History

3 Credit(s)

The U.S. legal system, based on the U.S. Constitution, has evolved and shifted as the nation grew from an agrarian republic to the diverse and highly technical nation it is today. This course examines the history of the country through the Supreme Court and the evolving understanding of the Constitution, including the shaping of the Constitution through the amendments. This course considers the social and political context for the courts decisions and the impact those decisions have on government and the public.

HIST 496 - Internship in Law

3 Credit(s)

The internship course provides students with an opportunity to demonstrate synthesis and application of the cumulative skills acquired in the pre-law program to a real-world work setting. The internship is an experience that integrates the students classroom learning into a work environment. The student will work closely with an internship supervisor, together they identify a work plan that demonstrates accomplishment of program outcomes and specific Adams outcomes.

PHIL 320 - Water Ethics

3 Credit(s)

This class will explore the ethical concerns of water (re)production, usage, and distribution according to concepts of rights and responsibilities, socio-historical conditions, available resources, cultural usage, evaluation, and governance.

POLS 300 - Introduction to World Politics

3 Credit(s)

This course is of interest to students who want a better understanding of the international political arena. The course also helps students understand contemporary world affairs.

POLS 301 - Change Dynamics / International Relations

3 Credit(s)

This course is intended to supplement POLS 300, but can stand on its own. It introduces students to specific topics in the international arena.

OR

POLS 307 - Introduction to World Governments

3 Credit(s)

This course is specifically designed to prepare education majors for the licensing exam. It is also of interest to history/political science students who want a better understanding of institutions and systems.

POLS 351 - Congress / Presidency / Public Policy

3 Credit(s)

This course examines Congress, the legislative process, presidency, and how both influence the policy-making process, with emphasis on specific policies such as healthcare, education, crime, housing, and social welfare.

POLS 380 - Model United Nations

3 Credit(s)

This course explores international diplomacy and the inner workings of the United Nations. It also provides a hands-on approach to current global debates on issues such as violent conflict, human rights and poverty.

POLS 393 - Women, Politics, and Culture

3 Credit(s)

Interdisciplinary analysis of politics and culture. Course examines the role of gender in the political culture of the United States and selected societies in industrialized and developing nations. Of special interest to those wishing to pursue an interest in women's studies and/or cultural anthropology.

POLS 460 - Pre-Law Studies Seminar

3 Credit(s)

Taught in an intensive Socratic format, this course is designed to prepare students specifically to read, write, and think like a lawyer. In addition to formal classroom exercises, students shall visit courts and interact with practicing attorneys.

POLS 480 - International Law

3 Credit(s)

This course explores the key terms and concepts of International Law, from its historical roots to present day institutions, legal cases, and controversies. Many of the key terms and concepts of International Law are the same or similar to those of the U.S. legal system, thereby helping to prepare students who wish to pursue a domestic law degree.

Prerequisite(s):

POLS 380

Co-requisite(s): POLS 380

SOC 346 - Criminal Justice

3 Credit(s)

The focus of this course is on the organizational structures and social processes of the American criminal justice system. It will examine criminal law, policing, courts, and corrections.

Choose 2 Courses from Recommended Electives

ANTH 360 - Forensic Anthropology

3 Credit(s)

This class examines the science and methods of physical anthropology as it relates to the medico-legal work done to identify unknown human remains in atypical circumstances. This introductory course will introduce students to human osteology and dentition in relation to identifying age, sex, stature, and ancestry, as well as bone pathologies and techniques for estimating time of death and post-mortem changes. As part of the course, some visual materials will depict trauma and decomposition of human remains.

HIST 427 - The Sixties Era

3 Credit(s)

This course is a study of U.S. history from World War II through the 1980s, with emphasis on the Cold War, the Vietnam War, and social change in the 1960s era.

HIST 440 - The US Presidency

3 Credit(s)

This course will examine the evolution of the U.S. Presidency from 1789 to the present day, with special attention devoted to the changing scope and function of the office in the changing context of broader American history. Other topics of particular interest are the key figures who have altered the institution and role of crisis in changing the scope and functioning of the office.

POLS 303 - Current Political Issues

3 Credit(s)

This course examines current controversial political issues such as affirmative action, same sex marriage, abortion, capital punishment, cloning, pornography, censorship, religion in public schools, and immigration.

PSYC 316 - Drugs, Society, and Human Behavior

3 Credit(s)

This course addresses the social, biological, and psychological factors of the major drugs associated with therapeutic and recreational use and abuse. Topics include drug use as a social problem, theories and treatment of addiction, how drugs work, and the detrimental health effects of drug use.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

PSYC 384 - Forensic Psychology

3 Credit(s)

This course focuses upon the application and practice of psychology in both the civil and criminal justice systems with the following topics examined in depth: police and investigative psychology, family forensic psychology, psychology of crime and delinquency, victimology and victim services, legal psychology, expert witness testimony, consulting psychology, correctional psychology, and the ethical guidelines of the professional forensic psychologist.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

OR

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

OR

SOC 455 Minimum Grade: C- OR T

SOC 346 - Criminal Justice

3 Credit(s)

The focus of this course is on the organizational structures and social processes of the American criminal justice system. It will examine criminal law, policing, courts, and corrections.

SOC 347 - Juvenile Delinquency

3 Credit(s)

This course describes the nature of delinquency, including the trends, characteristics, and causes of juvenile delinquency. In addition, the course will examine theories of delinquency, social influences on delinquency, historical and contemporary overviews of the juvenile justice system, and the juvenile justice process from police involvement to the court system and corrections. Finally, methods of treatment and prevention will be identified.

SOC 430 - Social Movements

3 Credit(s)

This course is designed to provide an analysis of social movements on a broad array of topics including issues of how they form, why they form, when are they successful, and whether they change society. We will be looking at broader historical movements from the civil rights movement, the environmental movement and the feminist movement as well as more recent movements, on race, class and gender issues. We will look at how they relate to diversity and equity, social justice, globalization, and cultural change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 444 - Deviance and Control

3 Credit(s)

The sociology of deviance and control examines the nature of rule-making and rule-breaking in modern societies. The course includes theoretical considerations of the causes and consequences of deviance.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 447 - Correctional Systems

3 Credit(s)

This course will focus on corrections as one of the components of the American criminal justice system and its operation within a democratic form of government. The philosophical and historical underpinnings of punishment and correction will be analyzed and compared (e.g., punishment vs. rehabilitation).

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

AND

SOC 346 Minimum Grade: C- OR T

Bachelor of Arts in Sociology, Criminology Emphasis

Go to: Sociology

Note for Sociology Students

- Completion of SOC 201 is a prerequisite for all other sociology courses.
- All Sociology Majors must meet the requirements of the Local Writing Assessment in Sociology as well as the Internship, ePortfolio, and Final Review.

Sociology Required Courses

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

SOC 245 - Criminology

3 Credit(s)

Criminology is an introductory course to the study of crime and criminal behavior with special emphasis on theories of crime and delinquency causation, rates and extent of crime, and social control agents (i.e., the police, courts, and "corrections"). Special topics examined may include gangs, white-collar crimes, property crimes, victimless crimes, and organized crime.

SOC 251 - Social Problems

3 Credit(s)

This course is designed to provide the student with a survey of selected contemporary social problems. Social problems addressed in the class may include poverty, addiction and substance abuse, mental health, violence with a focus on family violence, crime, teen sexuality and pregnancy, and health care issues. The causes, severity, and consequences of the selected social problems are explored. In addition, strategies for alleviating social problems are presented.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

LS 225 Minimum Grade: C- OR T

SOC 255 - Research And Writing in Sociology

3 Credit(s)

This introductory course in social research and writing in sociology offers an overview of how sociologists study the social world, research social phenomena, and write about their findings. This class provides an overview of knowledge production and methods used by sociologists to develop a research agenda, test hypotheses, and refine theories and sociological inquiry. Students will gain the tools needed to conduct social research while also developing the skills necessary to read and critically evaluate sociological research. Students will learn fundamental concepts and mixed methods approach to sociological research. Students will summarize research and identify (1) the research question, (2) assumptions and propositions of the theory, (3) specific hypothesis, (4) methods used, and (5) the findings and results.

Prerequisite(s):

SOC 201 minimum grade C-

SOC 311 - Social Statistics

4 Credit(s)

This course presents a general overview of the statistical methods most commonly used in sociology and the social sciences. As a laboratory component, students will become proficient in SPSS, a computer program designed to aid statistical analysis. These skills will enable the student to read popular applications of statistics in the media with a critical eye; assess the use of statistics in the professional sociological literature; and use statistical tools to answer the sociological questions of interest.

Prerequisite(s):

SOC 255 Minimum Grade: C-

AND

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

SOC 318 - Race, Class, and Gender

3 Credit(s)

The focus of this course is on the interrelated ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result and the dynamics of change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 395 - Pre-Professional Seminar

2 Credit(s)

This course provides an introduction to the profession of sociology and the various career options available to graduates. Occupational and graduate school options are explored in detail through library research, presentations, observational and volunteer experiences, and informational interviews. Skills for job interviewing, resume development, and professional correspondence are explored.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 445 - Sociological Theory

3 Credit(s)

The major theories of society are covered in their classical and contemporary forms.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 455 - Qualitative Research Methods**4 Credit(s)**

This course is designed to expose students to a variety of qualitative research methods. Students will be instructed in the fundamentals of research design and implementation, including ethical considerations. Students will read and study the research projects of selected sociologists. Students will engage in multiple hands-on activities to practice research methods. Each student will design a qualitative research project. In the lab component of the course, students will analyze and interpret qualitative data. Finally, students will learn to conduct content analysis, and use grounding theory to code and analyze their data and write a final project report. This course includes a lab day each week and is a 4-credit course.

Prerequisite(s):

SOC 201 Minimum Grade: C-
AND

SOC 255 Minimum Grade: C-

SOC 493 - Internship in Sociology**3 Credit(s)**

Students in Sociology are placed at an internship site in the community and conduct a mentored capstone case study. Ninety hours of service with the agency are required. The student is supervised by both a Sociology faculty member and a representative from the human service agency. Instructor approval required for registration purposes.

Prerequisite(s):

Special permission and senior standing.

Criminology Emphasis**SOC 346 - Criminal Justice****3 Credit(s)**

The focus of this course is on the organizational structures and social processes of the American criminal justice system. It will examine criminal law, policing, courts, and corrections.

SOC 447 - Correctional Systems**3 Credit(s)**

This course will focus on corrections as one of the components of the American criminal justice system and its operation within a democratic form of government. The philosophical and historical underpinnings of punishment and correction will be analyzed and compared (e.g., punishment vs. rehabilitation).

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

SOC 346 Minimum Grade: C- OR T

Choose 1 of the following electives

SOC 347 - Juvenile Delinquency

3 Credit(s)

This course describes the nature of delinquency, including the trends, characteristics, and causes of juvenile delinquency. In addition, the course will examine theories of delinquency, social influences on delinquency, historical and contemporary overviews of the juvenile justice system, and the juvenile justice process from police involvement to the court system and corrections. Finally, methods of treatment and prevention will be identified.

SOC 348 - Women and Crime

3 Credit(s)

This course will address the role women play as criminals, victims, and professionals in the criminal justice system. This course will examine the important intersection between gender and crime, exploring the nature and extent of women's involvement in the criminal justice system. The course will investigate and discuss the relationship between victimization and offending, and study the unique way women are involved in and impacted by the criminal justice system, with case study examples from real crimes.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 444 - Deviance and Control

3 Credit(s)

The sociology of deviance and control examines the nature of rule-making and rule-breaking in modern societies. The course includes theoretical considerations of the causes and consequences of deviance.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

Choose 2 Courses from these Sociology Electives

SOC 279 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

SOC 305 - Rural Sociology

3 Credit(s)

The purpose of this course is to introduce some of the social, political, environmental, and economic problems and prospects associated with rural America. Special attention will also be given rural community services and social institutions, with some focus on the San Luis Valley and other parts of rural Colorado.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 315 - Sociology of Education

3 Credit(s)

This course explores the relationship between education and society with special emphasis on the effects of this relationship on the lives of students in the American education system.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 320 - Marriages and Families

3 Credit(s)

This course will provide an overview of the family from a sociological perspective. The family is considered to be one of the most private and pervasive institutions in society. All of us have had contact with at least one family, and many of us will be involved in several different families during our lifetime. Our experiences point to the numerous transformations in family life. To obtain a better understanding of these changes, recent sociological research and data on the family will be utilized in this course. In addition to examining the history of the family, the course will study the contemporary family and its diversity. The course will examine traditional marriage/family arrangements and alternative processes of mate selection and family formation. Finally, the course will examine parenting, the relationship between work and family, divorce and reconstituted families.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 345 - Women, Sport, and Society

3 Credit(s)

This course will explore how women have been involved in sports and athletics, how they have fought to claim recognition and legitimacy among historically male dominated settings, and how they continue to shape sports and the role of women in society. We will explore a wide variety of topics in society related to women in sports including historical influences, equitable access, characteristics of female sport participation, sport opportunities, and sport leadership. Topics will include Title IX, female bodies and physiology, sport diversity, gender identity, women's sport and aging, disabilities, sport and sexual violence, media and women's portrayal in sports, competitive sports in high school, college, and professional leagues, and marketing women's sports.

SOC 347 - Juvenile Delinquency

3 Credit(s)

This course describes the nature of delinquency, including the trends, characteristics, and causes of juvenile

delinquency. In addition, the course will examine theories of delinquency, social influences on delinquency, historical and contemporary overviews of the juvenile justice system, and the juvenile justice process from police involvement to the court system and corrections. Finally, methods of treatment and prevention will be identified.

SOC 348 - Women and Crime

3 Credit(s)

This course will address the role women play as criminals, victims, and professionals in the criminal justice system. This course will examine the important intersection between gender and crime, exploring the nature and extent of women's involvement in the criminal justice system. The course will investigate and discuss the relationship between victimization and offending, and study the unique way women are involved in and impacted by the criminal justice system, with case study examples from real crimes.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 365 - Race and Ethnicity in the U.S.

3 Credit(s)

This course provides a sociological approach to race and ethnic relations in the U.S. today. This course introduces the basic sociological theories and perspectives related to the study of race and ethnicity, the histories, and present status of different racial and ethnic groups in the United States and raises questions about continuing racial discrimination and inequality in our society. Issues of defining race, racial identity, interpersonal and institutional discrimination, segregation, and affirmative action (among others) are explored.

SOC 370 - Poverty and Wealth

3 Credit(s)

This course examines the historical and socio-cultural factors which influence the creation and maintenance of poverty and wealth. Emphasis will be on structural factors and theoretical explanations of poverty and inequality. This course will also focus on the implications for policy and social programs aimed at poverty and other social class issues. In addition, there will be exploration of systems of power, privilege, and domination that are central to the American social structure. Finally, the issues of empowerment, resistance, and solutions to social inequality will be assessed.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

SOC 251 Minimum Grade: C- OR T

SOC 379 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

SOC 391 - Sociology of Religion

3 Credit(s)

This course will introduce students to an examination of religion through sociological inquiry and imagination. Students will learn how sociologists study religion and will apply classical and contemporary sociological theories to understand both personal religious experiences/identities and organized religion as a social phenomenon. The course explores socialization into religions, the processes of conversion and apostasy, and various forms of organizational structures for religious groups. Other issues to be explored include how religious identity and structure connect to gender, race, sexuality, and social class; competition and conflict between different religious groups; as well as the tension between religion as a social institution and secularization trends in the contemporary US.

Prerequisite(s):

Junior standing

SOC 401 - Self & Society

3 Credit(s)

This course will look at social psychology from a sociological perspective. More specifically, students will utilize the symbolic interactionist theory to examine how identities, selves, social life, and social reality are products of ongoing social interactions.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 419 - Gender and Society

3 Credit(s)

The aim of the course is for students to become familiar with the continuing differences and inequalities between women and men in the contemporary United States, and to begin to explain why and how they occur through a sociological lens. Understanding gender as it relates to other social identities (for example, race, class and sexuality) is an important organizing framework of the course. Students will learn about the gendered arrangements in a variety of social contexts such as education, the media, work and the economy, and the family.

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 430 - Social Movements

3 Credit(s)

This course is designed to provide an analysis of social movements on a broad array of topics including issues of how they form, why they form, when are they successful, and whether they change society. We will be looking at broader historical movements from the civil rights movement, the environmental movement and the feminist movement as well

as more recent movements, on race, class and gender issues. We will look at how they relate to diversity and equity, social justice, globalization, and cultural change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 440 - Diversity in Media

3 Credit(s)

Students will analyze how US media represents traditionally marginalized people in the United States. The course will be primarily research, case study, and discussion based, with students and instructor working together to generate ideas and critique dominant ideologies.

SOC 444 - Deviance and Control

3 Credit(s)

The sociology of deviance and control examines the nature of rule-making and rule-breaking in modern societies. The course includes theoretical considerations of the causes and consequences of deviance.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 479 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

Note:

- For students choosing the Criminology emphasis: SOC 352, SOC 370, and SOC 470 are also available as elective courses.
- For students choosing the Social Work emphasis: SOC 346, SOC 347, and SOC 447 are also available as elective courses.

Bachelor of Arts in Sociology, Social Work Emphasis

Go to: Sociology

Note for Sociology Students

- Completion of SOC 201 is a prerequisite for all other sociology courses.
- All Sociology Majors must meet the requirements of the Local Writing Assessment in Sociology as well as the Internship, ePortfolio, and Final Review.

Sociology Required Courses

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

SOC 245 - Criminology

3 Credit(s)

Criminology is an introductory course to the study of crime and criminal behavior with special emphasis on theories of crime and delinquency causation, rates and extent of crime, and social control agents (i.e., the police, courts, and "corrections"). Special topics examined may include gangs, white-collar crimes, property crimes, victimless crimes, and organized crime.

SOC 251 - Social Problems

3 Credit(s)

This course is designed to provide the student with a survey of selected contemporary social problems. Social problems addressed in the class may include poverty, addiction and substance abuse, mental health, violence with a focus on family violence, crime, teen sexuality and pregnancy, and health care issues. The causes, severity, and consequences of the selected social problems are explored. In addition, strategies for alleviating social problems are presented.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

LS 225 Minimum Grade: C- OR T

SOC 255 - Research And Writing in Sociology

3 Credit(s)

This introductory course in social research and writing in sociology offers an overview of how sociologists study the social world, research social phenomena, and write about their findings. This class provides an overview of knowledge production and methods used by sociologists to develop a research agenda, test hypotheses, and refine theories and sociological inquiry. Students will gain the tools needed to conduct social research while also developing the skills necessary to read and critically evaluate sociological research. Students will learn fundamental concepts and mixed methods approach to sociological research. Students will summarize research and identify (1) the research question, (2) assumptions and propositions of the theory, (3) specific hypothesis, (4) methods used, and (5) the findings and results.

Prerequisite(s):

SOC 201 minimum grade C-

SOC 311 - Social Statistics

4 Credit(s)

This course presents a general overview of the statistical methods most commonly used in sociology and the social sciences. As a laboratory component, students will become proficient in SPSS, a computer program designed to aid statistical analysis. These skills will enable the student to read popular applications of statistics in the media with a critical eye; assess the use of statistics in the professional sociological literature; and use statistical tools to answer the sociological questions of interest.

Prerequisite(s):

SOC 255 Minimum Grade: C-

AND

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

SOC 318 - Race, Class, and Gender

3 Credit(s)

The focus of this course is on the interrelated ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result and the dynamics of change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 395 - Pre-Professional Seminar

2 Credit(s)

This course provides an introduction to the profession of sociology and the various career options available to graduates. Occupational and graduate school options are explored in detail through library research, presentations, observational and volunteer experiences, and informational interviews. Skills for job interviewing, resume development, and professional correspondence are explored.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 445 - Sociological Theory

3 Credit(s)

The major theories of society are covered in their classical and contemporary forms.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 455 - Qualitative Research Methods

4 Credit(s)

This course is designed to expose students to a variety of qualitative research methods. Students will be instructed in the fundamentals of research design and implementation, including ethical considerations. Students will read and study the research projects of selected sociologists. Students will engage in multiple hands-on activities to practice research methods. Each student will design a qualitative research project. In the lab component of the course, students will analyze and interpret qualitative data. Finally, students will learn to conduct content analysis, and use grounding theory to code and analyze their data and write a final project report. This course includes a lab day each week and is a 4-credit course.

Prerequisite(s):

SOC 201 Minimum Grade: C-
AND

SOC 255 Minimum Grade: C-

SOC 493 - Internship in Sociology

3 Credit(s)

Students in Sociology are placed at an internship site in the community and conduct a mentored capstone case study. Ninety hours of service with the agency are required. The student is supervised by both a Sociology faculty member and a representative from the human service agency. Instructor approval required for registration purposes.

Prerequisite(s):

Special permission and senior standing.

Social Work Emphasis

SOC 352 - Social Work Practices

3 Credit(s)

This course is an introduction to the nuts-and-bolts of social work practice. The course is designed with several general objectives in mind: (1) to familiarize the student with specific techniques of social work such as the person-in-environment approach and case management, (2) to provide a fundamental understanding of roles of community and family in social work practice, (3) to explore the needs of selected special populations in the community, (4) to identify the biological, psychological, and social influences on development and behavior across the life cycle, and (5) to introduce the student to fundamental social work practice skills.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

SOC 251 Minimum Grade: C- OR T

SOC 470 - Social and Public Programs

3 Credit(s)

This course analyzes the historical development, current content, and adequacy of social welfare policies in the United States. Specific policy areas to be discussed include income maintenance (including social insurance and public assistance), mental health, health care, and aging.

Prerequisite(s):

SOC 352 Minimum Grade: C- OR T

Choose 1 of the following electives

SOC 320 - Marriages and Families

3 Credit(s)

This course will provide an overview of the family from a sociological perspective. The family is considered to be one of the most private and pervasive institutions in society. All of us have had contact with at least one family, and many of us will be involved in several different families during our lifetime. Our experiences point to the numerous transformations in family life. To obtain a better understanding of these changes, recent sociological research and data on the family will be utilized in this course. In addition to examining the history of the family, the course will study the contemporary family and its diversity. The course will examine traditional marriage/family arrangements and alternative processes of mate selection and family formation. Finally, the course will examine parenting, the relationship between work and family, divorce and reconstituted families.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 370 - Poverty and Wealth

3 Credit(s)

This course examines the historical and socio-cultural factors which influence the creation and maintenance of poverty and wealth. Emphasis will be on structural factors and theoretical explanations of poverty and inequality. This course will also focus on the implications for policy and social programs aimed at poverty and other social class issues. In addition, there will be exploration of systems of power, privilege, and domination that are central to the American social structure. Finally, the issues of empowerment, resistance, and solutions to social inequality will be assessed.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

AND

SOC 251 Minimum Grade: C- OR T

Choose 2 Courses from these Sociology Electives

SOC 279 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

SOC 305 - Rural Sociology

3 Credit(s)

The purpose of this course is to introduce some of the social, political, environmental, and economic problems and prospects associated with rural America. Special attention will also be given rural community services and social institutions, with some focus on the San Luis Valley and other parts of rural Colorado.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 315 - Sociology of Education

3 Credit(s)

This course explores the relationship between education and society with special emphasis on the effects of this relationship on the lives of students in the American education system.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 320 - Marriages and Families

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This course will provide an overview of the family from a sociological perspective. The family is considered to be one of the most private and pervasive institutions in society. All of us have had contact with at least one family, and many of us will be involved in several different families during our lifetime. Our experiences point to the numerous transformations in family life. To obtain a better understanding of these changes, recent sociological research and data on the family will be utilized in this course. In addition to examining the history of the family, the course will study the contemporary family and its diversity. The course will examine traditional marriage/family arrangements and alternative processes of mate selection and family formation. Finally, the course will examine parenting, the relationship between work and family, divorce and reconstituted families.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 345 - Women, Sport, and Society

3 Credit(s)

This course will explore how women have been involved in sports and athletics, how they have fought to claim recognition and legitimacy among historically male dominated settings, and how they continue to shape sports and the role of women in society. We will explore a wide variety of topics in society related to women in sports including historical influences, equitable access, characteristics of female sport participation, sport opportunities, and sport leadership. Topics will include Title IX, female bodies and physiology, sport diversity, gender identity, women's sport and aging, disabilities, sport and sexual violence, media and women's portrayal in sports, competitive sports in high school, college, and professional leagues, and marketing women's sports.

SOC 347 - Juvenile Delinquency

3 Credit(s)

This course describes the nature of delinquency, including the trends, characteristics, and causes of juvenile delinquency. In addition, the course will examine theories of delinquency, social influences on delinquency, historical and contemporary overviews of the juvenile justice system, and the juvenile justice process from police involvement to the court system and corrections. Finally, methods of treatment and prevention will be identified.

SOC 348 - Women and Crime

3 Credit(s)

This course will address the role women play as criminals, victims, and professionals in the criminal justice system. This course will examine the important intersection between gender and crime, exploring the nature and extent of women's involvement in the criminal justice system. The course will investigate and discuss the relationship between victimization and offending, and study the unique way women are involved in and impacted by the criminal justice system, with case study examples from real crimes.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 365 - Race and Ethnicity in the U.S.

3 Credit(s)

This course provides a sociological approach to race and ethnic relations in the U.S. today. This course introduces the basic sociological theories and perspectives related to the study of race and ethnicity, the histories, and present status of different racial and ethnic groups in the United States and raises questions about continuing racial discrimination and inequality in our society. Issues of defining race, racial identity, interpersonal and institutional discrimination, segregation, and affirmative action (among others) are explored.

SOC 370 - Poverty and Wealth

3 Credit(s)

This course examines the historical and socio-cultural factors which influence the creation and maintenance of poverty and wealth. Emphasis will be on structural factors and theoretical explanations of poverty and inequality. This course will also focus on the implications for policy and social programs aimed at poverty and other social class issues. In addition, there will be exploration of systems of power, privilege, and domination that are central to the American social structure. Finally, the issues of empowerment, resistance, and solutions to social inequality will be assessed.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

AND

SOC 251 Minimum Grade: C- OR T

SOC 379 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

SOC 391 - Sociology of Religion

3 Credit(s)

This course will introduce students to an examination of religion through sociological inquiry and imagination. Students will learn how sociologists study religion and will apply classical and contemporary sociological theories to understand both personal religious experiences/identities and organized religion as a social phenomenon. The course explores socialization into religions, the processes of conversion and apostasy, and various forms of organizational structures for religious groups. Other issues to be explored include how religious identity and structure connect to gender, race, sexuality, and social class; competition and conflict between different religious groups; as well as the tension between religion as a social institution and secularization trends in the contemporary US.

Prerequisite(s):

Junior standing

SOC 401 - Self & Society

3 Credit(s)

This course will look at social psychology from a sociological perspective. More specifically, students will utilize the symbolic interactionist theory to examine how identities, selves, social life, and social reality are products of ongoing social interactions.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 419 - Gender and Society

3 Credit(s)

The aim of the course is for students to become familiar with the continuing differences and inequalities between women and men in the contemporary United States, and to begin to explain why and how they occur through a sociological lens. Understanding gender as it relates to other social identities (for example, race, class and sexuality) is an important organizing framework of the course. Students will learn about the gendered arrangements in a variety of social contexts such as education, the media, work and the economy, and the family.

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 430 - Social Movements

3 Credit(s)

This course is designed to provide an analysis of social movements on a broad array of topics including issues of how they form, why they form, when are they successful, and whether they change society. We will be looking at broader historical movements from the civil rights movement, the environmental movement and the feminist movement as well as more recent movements, on race, class and gender issues. We will look at how they relate to diversity and equity, social justice, globalization, and cultural change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 440 - Diversity in Media

3 Credit(s)

Students will analyze how US media represents traditionally marginalized people in the United States. The course will be primarily research, case study, and discussion based, with students and instructor working together to generate ideas and critique dominant ideologies.

SOC 444 - Deviance and Control

3 Credit(s)

The sociology of deviance and control examines the nature of rule-making and rule-breaking in modern societies. The course includes theoretical considerations of the causes and consequences of deviance.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 479 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

Note:

- For students choosing the Criminology emphasis: SOC 352, SOC 370, and SOC 470 are also available as elective courses.
- For students choosing the Social Work emphasis: SOC 346, SOC 347, and SOC 447 are also available as elective courses.

Bachelor of Arts in Spanish, Liberal Arts Emphasis

Go to: Languages, Literature, and Media Communication

This program offers a wide variety of classes covering the language, literature, and culture of Spain and Latin America. There are also career-oriented classes such as Spanish for Translation, Spanish for Health Professions, and Spanish for Business.

Required Core

SPAN 313 - Conversation and Composition

3 Credit(s)

This course provides instruction in the development of advanced level conversation and writing skills (spelling, paragraphs, summaries, letters, reports, etc.) in Spanish. The student will acquire the useful everyday skills needed to communicate in Spanish correctly.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 350 - Advanced Grammar and Composition

3 Credit(s)

Intensive course in grammar and in the writing composition of the language. Advanced grammar principles, translation from English to Spanish and other language refinements.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

Civilization and Culture Courses

SPAN 325 - Spanish Civilization and Culture

3 Credit(s)

Instruction on selected themes taken from the historical legacy and cultural institutions of the Spanish people. The cultural topics include reading on: the Roman legacy, the church, the Moors, the great writers of the Golden Age, the great Spanish monarchs, Franco, etc. The selected themes will determine the supplemental readings that are selected in depth discussion and study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

OR

SPAN 326 - Latin American Civilization and Culture

3 Credit(s)

Instruction on selected themes taken from the historical and literary legacy of the Spanish people. The literary topics include reading about Spanish heroism, medieval Spanish beliefs, Spanish imperialism, Spanish-Indian relations, Great Spanish explorers, etc. The selected themes will determine the reading that are selected for in depth discussion and study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

Literature Courses

SPAN 340 - Topics in Spanish Literature

3 Credit(s)

Instruction on selected themes taken from the historical and literary legacy of the Spanish people. The literary topics include reading about Spanish heroism, medieval Spanish beliefs, Spanish imperialism, Spanish-Indian relations, Great Spanish explorers, etc. The selected themes will determine the reading that are selected for in depth discussion and study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

OR

SPAN 341 - Topics in Latin American Literature

3 Credit(s)

Instruction on selected themes taken from the historical and literacy of the Latin American people. The literary topics include reading on: the Spanish conquest, the Indian, independence, social protest, women, religious faith, etc. The selected themes will determine the readings that are selected for in depth discussion and study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

Language Elective Courses (6 Hours)

SPAN 310 - Southwest Spanish

3 Credit(s)

A study of characteristics of oral Southwest Spanish. The course will explore the historical origins of Spanish in the Southwest including the conquest and colonization by the Spanish, the signing of the Treaty of Guadalupe Hildago, and the settlement of the San Luis Valley. Issues related to bilingualism, Spanish/English contact, and attitudes toward and effects of the maintenance and loss of Spanish will be examined.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 315 - Spanish for Business

3 Credit(s)

Instruction in the specific vocabulary, grammatical structures, and cultural insights needed to effectively deal with the common everyday business interactions between the Spanish-speaking client and English-speaking business community.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 316 - Spanish for Health Professions**3 Credit(s)**

Instruction in the special vocabulary, grammatical structures and cultural understanding needed to deal effectively with the Spanish speaking patient/health professional interactions. The student will learn to interact in Spanish with a variety of simulated common everyday patient/health personnel situations.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 317 - Spanish for Translation**3 Credit(s)**

Instruction in the specific vocabulary, grammatical structures, and cultural insights needed to effectively deal with the non-technical general translations from English/Spanish or Spanish/English. Although the student will learn that there are various approaches used in the translation of texts, this course emphasizes the translation of the underlying message and its meaning based on the cultural context.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 379 - Special Topics**1 to 6 Credit(s)**

Offered periodically to meet student special interests in the field.

SPAN 395 - Spanish Phonetics--Language History**3 Credit(s)**

Introduction to the study of the Spanish sound system including a brief background of the history and development of the Spanish language as well as some discussion of dialectal differences across the globe. Designed for those planning to teach Spanish including pedagogical concepts that can be applied in the classroom to aid students in the improvement of their Spanish pronunciation. Examine English/Spanish contrasts and includes exercises in written transcription, oral productions, and an analysis of spoken Spanish.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 396 - Methods Teaching Foreign Language**3 Credit(s)**

A study of effective teaching methods and the development of a contextualized approach to language instruction that is

based on meaningful language use, real-world communication, and interaction among learners. Emphasis will be placed on the National Standards for Foreign Language Learning and the American Council on the Teaching of Foreign Languages (ACTFL) proficiency guidelines.

Prerequisite(s):

Admission to the Educator Preparation Program

Literature Elective Courses (6 Hours)

SPAN 400 - Masterpieces of Spanish Literature

3 Credit(s)

This is a senior level course that provides an in-depth study of selected complete works of Spanish literary masterpieces. Five complete literary masterpiece works by Spanish writers will be selected for an in-depth study. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 401 - Masterpieces of Latin American Literature

3 Credit(s)

This is a senior level course that provides an in-depth study of selected complete works of Latin American literary masterpieces. Five complete literary masterpiece works by Latin American writers will be selected for an in-depth study. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 411 - Contemporary Spanish Literature

3 Credit(s)

This is a senior-level course that provides an in-depth study of selected complete works of contemporary Spanish literary works. Five complete literary works by Spanish writers will be selected for an in-depth study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 412 - Contemporary Latin American Literature

3 Credit(s)

This is a senior-level course that provides an in-depth study of selected complete works of contemporary Latin American literary works. Five complete literary works by contemporary Latin American writers will be selected for an in-depth study. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 413 - La Literatura Indigenista

3 Credit(s)

Study of the major themes and characteristics surrounding the social condition and plight of the Indian as portrayed in the major Latin American indigenous novels. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 414 - Spanish American Thought

3 Credit(s)

Study of the major themes, ideas, and perspectives of major Latin American writers. The selected readings include interpretive essays, literary narratives, and philosophical works by such writers as: Samiento, Andres Bello, Juan Montalvo, Jose Marti, Octavio Paz, Jose Vasconcelos, Leopold Zea, and others. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 415 - Cervantes/EI Quijote

3 Credit(s)

A study of the life and important works of Cervantes with special emphasis on the Quijote. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 416 - La Novela/Revolucion Mexicana

3 Credit(s)

Analysis of the most important novelists of the Mexican Revolution and their impact upon the present day political, social, and economic structure of Mexico. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 419 - Golden Age Drama

3 Credit(s)

A study of the themes, forms and development of Spanish National Theatre of the 16th and 17th Centuries. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 423 - Modern Hispanic Short Story

3 Credit(s)

This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 425 - Hispanic Poetry

3 Credit(s)

A course designed to analyze the techniques, styles, etc. of selected Hispanic poetic collections. Instructor permission may be sought in lieu of prerequisites.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 479 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

Language/Literature Electives (3 additional hours from above)

Note

Successful completion of the Senior Comprehensive Examination (SCE).

Successful completion of the Oral Proficiency Interview (OPI) in Spanish at ACTFL level advanced high.

NOTE: Completion of the SCE and OPI are instruments used by ASU Language Faculty to assess the effectiveness of their program in four areas:

Oral performance in speaking, understanding, description, and oral narration;

- Writing (Grammar);
- Hispanic culture and literature appreciation;
- Teaching methodology.

Bachelor of Arts in Spanish, Secondary Teacher Licensure

Go to: Bachelor of Arts, Secondary Education Licensure

Go to: Languages, Literature, and Media Communication

1. Required Core

SPAN 313 - Conversation and Composition

3 Credit(s)

This course provides instruction in the development of advanced level conversation and writing skills (spelling, paragraphs, summaries, letters, reports, etc.) in Spanish. The student will acquire the useful everyday skills needed to communicate in Spanish correctly.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 350 - Advanced Grammar and Composition

3 Credit(s)

Intensive course in grammar and in the writing composition of the language. Advanced grammar principles, translation from English to Spanish and other language refinements.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 395 - Spanish Phonetics--Language History

3 Credit(s)

Introduction to the study of the Spanish sound system including a brief background of the history and development of the Spanish language as well as some discussion of dialectal differences across the globe. Designed for those planning to teach Spanish including pedagogical concepts that can be applied in the classroom to aid students in the improvement of their Spanish pronunciation. Examine English/Spanish contrasts and includes exercises in written transcription, oral productions, and an analysis of spoken Spanish.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 396 - Methods Teaching Foreign Language

3 Credit(s)

A study of effective teaching methods and the development of a contextualized approach to language instruction that is based on meaningful language use, real-world communication, and interaction among learners. Emphasis will be placed on the National Standards for Foreign Language Learning and the American Council on the Teaching of Foreign Languages (ACTFL) proficiency guidelines.

Prerequisite(s):

Admission to the Educator Preparation Program

A) Civilization and Culture Courses

SPAN 325 - Spanish Civilization and Culture

3 Credit(s)

Instruction on selected themes taken from the historical legacy and cultural institutions of the Spanish people. The cultural topics include reading on: the Roman legacy, the church, the Moors, the great writers of the Golden Age, the great Spanish monarchs, Franco, etc. The selected themes will determine the supplemental readings that are selected in depth discussion and study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

OR

SPAN 326 - Latin American Civilization and Culture

3 Credit(s)

Instruction on selected themes taken from the historical and literary legacy of the Spanish people. The literary topics include reading about Spanish heroism, medieval Spanish beliefs, Spanish imperialism, Spanish-Indian relations, Great Spanish explorers, etc. The selected themes will determine the reading that are selected for in depth discussion and study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

B) Literature Courses

SPAN 340 - Topics in Spanish Literature

3 Credit(s)

Instruction on selected themes taken from the historical and literary legacy of the Spanish people. The literary topics include reading about Spanish heroism, medieval Spanish beliefs, Spanish imperialism, Spanish-Indian relations, Great Spanish explorers, etc. The selected themes will determine the reading that are selected for in depth discussion and study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

OR

SPAN 341 - Topics in Latin American Literature

3 Credit(s)

Instruction on selected themes taken from the historical and literacy of the Latin American people. The literary topics include reading on: the Spanish conquest, the Indian, independence, social protest, women, religious faith, etc. The selected themes will determine the readings that are selected for in depth discussion and study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

C) Language Elective Courses (6 Hours)

SPAN 310 - Southwest Spanish

3 Credit(s)

A study of characteristics of oral Southwest Spanish. The course will explore the historical origins of Spanish in the Southwest including the conquest and colonization by the Spanish, the signing of the Treaty of Guadalupe Hildago, and the settlement of the San Luis Valley. Issues related to bilingualism, Spanish/English contact, and attitudes toward and effects of the maintenance and loss of Spanish will be examined.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 315 - Spanish for Business

3 Credit(s)

Instruction in the specific vocabulary, grammatical structures, and cultural insights needed to effectively deal with the common everyday business interactions between the Spanish-speaking client and English-speaking business community.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 316 - Spanish for Health Professions

3 Credit(s)

Instruction in the special vocabulary, grammatical structures and cultural understanding needed to deal effectively with the Spanish speaking patient/health professional interactions. The student will learn to interact in Spanish with a variety of simulated common everyday patient/health personnel situations.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 317 - Spanish for Translation

3 Credit(s)

Instruction in the specific vocabulary, grammatical structures, and cultural insights needed to effectively deal with the non-technical general translations from English/Spanish or Spanish/English. Although the student will learn that there are various approaches used in the translation of texts, this course emphasizes the translation of the underlying message and its meaning based on the cultural context.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

D) Literature Elective Courses (6 Hours)

SPAN 400 - Masterpieces of Spanish Literature

3 Credit(s)

This is a senior level course that provides an in-depth study of selected complete works of Spanish literary masterpieces. Five complete literary masterpiece works by Spanish writers will be selected for an in-depth study. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 401 - Masterpieces of Latin American Literature

3 Credit(s)

This is a senior level course that provides an in-depth study of selected complete works of Latin American literary masterpieces. Five complete literary masterpiece works by Latin American writers will be selected for an in-depth study. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 411 - Contemporary Spanish Literature

3 Credit(s)

This is a senior-level course that provides an in-depth study of selected complete works of contemporary Spanish literary works. Five complete literary works by Spanish writers will be selected for an in-depth study.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 412 - Contemporary Latin American Literature

3 Credit(s)

This is a senior-level course that provides an in-depth study of selected complete works of contemporary Latin American literary works. Five complete literary works by contemporary Latin American writers will be selected for an in-depth study. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 413 - La Literatura Indigenista

3 Credit(s)

Study of the major themes and characteristics surrounding the social condition and plight of the Indian as portrayed in the major Latin American indigenous novels. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 414 - Spanish American Thought

3 Credit(s)

Study of the major themes, ideas, and perspectives of major Latin American writers. The selected readings include interpretive essays, literary narratives, and philosophical works by such writers as: Samiento, Andres Bello, Juan Montalvo, Jose Marti, Octavio Paz, Jose Vasconcelos, Leopold Zea, and others. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 415 - Cervantes/El Quijote

3 Credit(s)

A study of the life and important works of Cervantes with special emphasis on the Quijote. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

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3 Credit(s)

Analysis of the most important novelists of the Mexican Revolution and their impact upon the present day political, social, and economic structure of Mexico. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 419 - Golden Age Drama

3 Credit(s)

A study of the themes, forms and development of Spanish National Theatre of the 16th and 17th Centuries. This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 423 - Modern Hispanic Short Story

3 Credit(s)

This course requires instructor approval for registration purposes.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 425 - Hispanic Poetry**3 Credit(s)**

A course designed to analyze the techniques, styles, etc. of selected Hispanic poetic collections. Instructor permission may be sought in lieu of prerequisites.

Prerequisite(s):

SPAN 204 Minimum Grade: C- OR T

SPAN 479 - Special Topics**1 to 6 Credit(s)**

Offered periodically to meet student special interests in the field.

E. An additional 3 Credits from B, C, or D**Note**

Successful Completion of this Degree requires:

- Successful completion of the Senior Comprehensive Examination (SCE).
- Successful completion of the Oral Proficiency Interview (OPI) in Spanish at ACTFL level advanced high.

Completion of the SCE and OPI are instruments used by ASU Language Faculty to assess the effectiveness of their program in four areas:

1. Oral performance in speaking, understanding, description, and oral narration;
2. Writing (Grammar);
3. Hispanic culture and literature appreciation;
4. Teaching methodology.

Plus Additional Secondary Education Licensure Requirements from the School of Education

Bachelor of Arts, Secondary Education Licensure

Bachelor of Arts in Sport Psychology

Go to: Psychology

The Bachelor of Arts degree in sport psychology functions as a pre-professional program for graduate study in sport psychology, in sport and exercise physiology, and/or in counseling.

Specific courses required for this degree:

Sport Psychology majors must complete the following core courses

KIN 100 - Foundations of Kinesiology

3 Credit(s)

This course serves as an overview of the historical, philosophical, ethical and sociological foundations of Kinesiology. This course will be delivered with a specific emphasis on exercise science, sport management, sport psychology, and coaching. Students also will study current issues, challenges and trends as they relate to professional careers and the administration of sport, fitness, and physical education. Embedded within this course is an introduction to the key Academic Program Goals of Kinesiology.

BIOL 112 - Human Anatomy

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure of the human body. Typically taken by HPPE students. Topics include gross anatomy, histology, the relationship between structure and function, and anatomical changes associated with disease processes. Course includes three hours of lecture and two hours of laboratory per week.

OR

BIOL 205 - Human Anatomy and Physiology I

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The integumentary, skeletal, muscular, and nervous systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Test - Minimum Score: 3 **OR** MATH 97 Minimum Grade: S or S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T and SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18 **OR** ENG 96 Minimum Grade: S or T

BIOL 206 - Human Anatomy and Physiology II

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological

changes in disease. The digestive, respiratory, circulatory, urinary, endocrine, and reproductive systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL 205 Minimum Grade: C- or T

OR

BIOL 210 Minimum Grade: C- or T

KIN 309 - Care / Prevention of Athletic Injuries

3 Credit(s)

The course will focus on the care and prevention of athletic injuries, including the evaluation, nature, types, and functions of various rehabilitation programs.

KIN 329 - Exercise Physiology

3 Credit(s)

This course presents an introduction and overview of the physiological bases of physical education, sport, and athletics. The effects of exercise on the various systems will be considered. Practical application of exercise science to physical fitness and athletic performance will be emphasized.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T

OR

BIOL 205 Minimum Grade: C- OR T

Co-requisite(s): KIN-329L

KIN 329L - Exercise Physiology Lab

1 Credit(s)

This exercise physiology lab class is designed to supplement the exercise physiology lecture course. This course will provide students with a hands-on experience in which they can apply concepts learned in the classroom to practice in the human performance laboratory and field of exercise, fitness, and sport.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T

OR

BIOL 205 Minimum Grade: C- OR T

Co-requisite(s): KIN-329

KIN 340 - Kinesiology

3 Credit(s)

This course focuses on the nature of human movement as influenced by those motor factors, anatomical factors, and mechanical principles that apply at rest and in motion.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

AND

KIN 329 Minimum Grade: C- OR T

AND

KIN 329L Minimum Grade: C- OR T

KIN 341 - Human Motor Development

3 Credit(s)

This course is designed to educate Kinesiology majors in the principles of human motor behavior and its influence on cognitive, affective, and psychomotor development throughout the lifespan. It will introduce students to factors that affect the intellectual, social, emotional, and physical development, growth and maturation of individuals relative to motor acquisition and regression.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

AND

BIOL 206 Minimum Grade: C- OR T

KIN 427 - Coaching Tech Strength / Conditioning

3 Credit(s)

This course is designed to provide information relative to the basic foundation of coaching sports conditioning including muscle physiology, bioenergetics, training methodology, exercise technique, program design, and facility management. Students will be given the opportunity to develop a general strength coaching philosophy and to demonstrate their knowledge relative to proper lifting techniques demonstrate their knowledge relative to proper lifting and training procedures.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T
OR

KIN 422 - Exercise Evaluation and Fitness Management

3 Credit(s)

This course is designed to familiarize students with the current methods used to determine levels of fitness in apparently healthy individuals, as well as individuals from special populations. Students will learn how to prescribe exercise for these individuals based on their fitness evaluation, basic training principles and other considerations. Students will be given the opportunity to test various individuals within specific testing parameters, and apply course knowledge to practical situations.

Prerequisite(s):

KIN 329L Minimum Grade: C- OR T

KIN 450 - Senior Capstone

3 Credit(s)

This course is designed as a culminating experience for Kinesiology majors. The focus of this High Impact Practice course will be on integrating prior knowledge, competencies, and experiences into practical applications and further professional development. Three main areas will be covered: service-learning, professional development, and personal reflection in relation to the student experience at Adams State.

Prerequisite(s):

Teacher Education Background Check Passed

Sport Psychology

KIN 302 - Sport Psychology

3 Credit(s)

Sport psychology is primarily concerned with the interaction between psychological variables and participation in sport and exercise. This course will review this interaction by addressing variables that affect the individual athlete, influence sport and exercise environments, shape group processes, enhance health and wellbeing, improve performance, and facilitate psychological growth and development in sport participants from diverse populations.

KIN 350 - Methods of Coaching

3 Credit(s)

This course is intended to provide the foundations of coaching for a person who wants to coach at the youth, elementary, high school or college level. Through a series of discussions, readings, and other projects, the potential coach will gain the knowledge and skills required to be an effective coach. This course will address the many roles and duties a coach must accept to provide positive experiences for athletes in sport.

KIN 380 - Diversity, Equity Sport, and Society

3 Credit(s)

This course has a two-fold purpose: first, it is designed to provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask questions and think critically about sport as a part of society. This course will explore issues around diversity, equity and inclusion in sport and society.

KIN 436 - Applied Sport Psychology

3 Credit(s)

This course focuses on the practice of sport psychology. The course will review the significance of relevant psychological concept, and develop students' knowledge and skills relevant for applied sport psychology. Students will explore and experience the process of learning, developing and practicing techniques used to improve the athletic performance of individuals, groups, and teams.

Prerequisite(s):

KIN 302

Psychology

PSYC 205 - Adolescent and Adult Development

3 Credit(s)

This course continues the study of life-span development from adolescence through old age and death. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Topics include identity formation, sexual orientation, marriage, models of aging, changes in cognition, social developments, and coping with old age.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 211 - Introduction to Statistics Lecture/Lab

4 Credit(s)

In this course, students will develop a working appreciation of statistical concepts and applications as employed in the behavioral sciences. The course presents descriptive and inferential statistics and their applications. The laboratory component of this course gives students an opportunity to develop skills in using statistical software.

Prerequisite(s):

PSYC 101 Minimum Grade: C- or T

AND

MATH 97 Minimum Grade: S-A or S-B or S-C or T

OR

MATH 99 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 121 Minimum Grade: C- or T

OR

MATH 140 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

LS 225 - Research Skills for Behavioral Sciences

1 Credit(s)

In this one-credit course, Sociology and Psychology majors will learn how to and use a variety of print and electronic resources specific to their discipline. Understanding the process of writing a literature review is the emphasis of the course.

PSYC 245 - Brain and Behavior

3 Credit(s)

This course provides students with a basic overview of the biological processes underlying human behavior. This course begins by presenting fundamental nervous system structure and processes and concludes by examining the role of biology in complex behaviors. Clinical case studies are used to illustrate psychological and neurological disorders. Sample topics include evolution and genetics, neural communication, major brain structures and their functions, human brain damage, sleep and dreaming, drug addiction, memory and amnesia, and stress and illness.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 265 - Personalities in Perspective

3 Credit(s)

This course provides an introduction to the psychodynamic, trait, behavioral, biological, cognitive and humanistic approaches to personality. Specific theories and current research within each approach are reviewed. The course covers such theorists as Freud, Jung, Erikson, Skinner, Bandura, Cattell, Allport, and May.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

OR

PSYC 410 - Social Psychology

3 Credit(s)

This course will examine how social processes impact thoughts, feelings, and behavior through the survey of theory and research. Topics will include attraction, aggression, helping, obedience, attitudes, and prejudice.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

COUN 312 - Introduction to Counseling

3 Credit(s)

This course provides an introduction to the profession of counseling and the importance of interpersonal communication skills and self-awareness across a variety of disciplines. Topics include an introduction to different counseling approaches, such as individual, family, and group counseling.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

OR

PSYC 205 Minimum Grade: C- OR T

PSYC 355 - Research Methods in Psychology

4 Credit(s)

This course focuses on the procedures and potential problems associated with research in the behavioral sciences. Students learn how to develop research questions, choose an appropriate research design, collect and analyze data using statistical software, interpret results, and write a report using APA style. The laboratory component provides supervised hands-on experience in project development.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

LS 225 Minimum Grade: C- OR T

PSYC 386 - Theory and Practice

3 Credit(s)

This course presents the historical underpinnings of the major theories and principles of learning, and how they are used in applied settings. Classic learning theories are contrasted with contemporary approaches. Students will learn cognitive behavioral assessment and intervention strategies. Topics include traditional behavior modification, as well as contemporary social learning theory and cognitive-behavioral change strategies.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

Completion of Six Hours of the Following Electives

PSYC 315 - Multicultural Issues

3 Credit(s)

In this course, students will explore various components of a multicultural society and the impact of social and cultural forces on identity development and formation. The processes of acculturation and assimilation will be discussed. Students will also gain insight into their own cultural experiences in a pluralistic society.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

PSYC 316 - Drugs, Society, and Human Behavior

3 Credit(s)

This course addresses the social, biological, and psychological factors of the major drugs associated with therapeutic and recreational use and abuse. Topics include drug use as a social problem, theories and treatment of addiction, how drugs work, and the detrimental health effects of drug use.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

PSYC 360 - Psychology of Gender

3 Credit(s)

This course will examine gender development from a variety of theoretical approaches, including evolutionary, cognitive, social learning, and cross-cultural. Topics will include how gender influences thinking, communication, interpersonal relationships, education, work, and family.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

PSYC 375 - Human Sexuality

3 Credit(s)

In this multidisciplinary course, students will be introduced to the physiological, medical, sociological, psychological, legal, ethical, moral, and educational facets of human sexuality. Topics in this course include male and female sexual anatomy and sexual response, contraception and disease control, sexually transmitted diseases, and sexual orientation.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 380 - Health Psychology

3 Credit(s)

Health Psychology examines the psychosocial factors relevant to health. The course emphasis will be on the contribution of psychological theory to the encouragement of health and wellness and prevention of physical illness. Topics include stress management, health and behavior, chronic and life threatening illness, treatment, and evaluation of health-related research. PSYC 211 recommended.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 205 Minimum Grade: C- OR T

PSYC 410 - Social Psychology

3 Credit(s)

This course will examine how social processes impact thoughts, feelings, and behavior through the survey of theory and research. Topics will include attraction, aggression, helping, obedience, attitudes, and prejudice.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
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AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

OR

PSYC 265 - Personalities in Perspective

3 Credit(s)

This course provides an introduction to the psychodynamic, trait, behavioral, biological, cognitive and humanistic approaches to personality. Specific theories and current research within each approach are reviewed. The course covers such theorists as Freud, Jung, Erikson, Skinner, Bandura, Cattell, Allport, and May.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 458 - Sensation and Perception

3 Credit(s)

This course examines the physiological and behavioral components of basic sensory processes and the role they play in perception. These sensory systems include vision, audition, the somatic senses (i.e., touch, temperature, and pain) and the chemical senses (i.e., taste and smell). The development and clinical aspects of these sensory systems are also studied. Sample topics include receptors and neural processing, color perception, depth and size perception, perception of movement, speech perception, and the perception of pitch.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
OR

PSYC 106 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

AND

PSYC 245 Minimum Grade: C- OR T

AND

PSYC 355 Minimum Grade: C- OR T

All Psychology Majors

Must participate in an exit interview with a committee of psychology faculty (arranged with advisor).

Bachelor of Arts in Theatre

Go to: Theatre

Specific courses required for this degree:

Completion of the Following Required Courses

THTR 223 - Acting

3 Credit(s)

An introduction to the art of performing using the Stanislavski system of acting. Classes will consist primarily of in-class activities designed to demonstrate acting concepts and principles. This course requires active participation in discussions, exercises, and the presentation of performances.

THTR 230 - Introduction to Devising

3 Credit(s)

This course offers a practical engagement with theatrical devising processes. Devising is a method of making performance work that is an alternative to script-based performance practices. In addition to using readings and class discussion to provide a grounding in understanding devising processes, the course will also be structured as a lab for a hands-on practical experience in devising new work.

Prerequisite(s):

THTR 223 Minimum Grade: C- OR T

THTR 251 - Stagecraft I

3 Credit(s)

An introductory course that explores the basic skills, principles, and techniques of Technical Theatre production: Production Organization & Management, Scenery and Props, Lighting & Electrics, Sound, and Costuming & Makeup. An emphasis on both theory and gaining practical, hands-on experience with Theatre tools, equipment, and common practices.

THTR 265 - Playscript Analysis

3 Credit(s)

This course offers a foundation in script analysis. Utilizing close reading techniques, students will practice reading scripts to garner the critical skills necessary to produce theatrical work. In addition to this focus on production analysis, students will also learn about the historical, cultural and political contexts for each play read to understand the consequences of producing theatrical work in relation to the broader social milieu.

THTR 285 - Production Management

3 Credit(s)

This course presents information, materials, experiences, and projects that will lead students to an understanding of the functions of technical direction and stage and theatre management. It will teach students to become practicing, problem solving technical directors, stage managers and house managers.

Prerequisite(s):

THTR 251 Minimum Grade: C-

THTR 385 - Play Direction

3 Credit(s)

A comprehensive study of the numerous, functions of the stage director, from pre-season play selection to post-production evaluation. The focus will be placed upon script analysis, development of design concepts, principles of blocking and movement, pacing, and communicating with actors and the design team.

Prerequisite(s):

THTR 223 Minimum Grade: C- OR T

THTR 430 - Business of Theatre

3 Credit(s)

This course is an exploration of the business of theatre, with the purpose of preparing students for entrance into the professional and/or academic world of theatre post-graduation.

THTR 480 - Dramatic Theory and Criticism

3 Credit(s)

An advanced examination of selected critical writings of major theorists and critical theories in theatre, beginning with the study of Aristotle and including the application of contemporary theories to a variety of playscripts.

THTR 490 - Senior Thesis

3 Credit(s)

An advanced examination of a single area of theatre. This is the graduating senior's capstone project. The precise nature of the project will be designed in consultation with the student's advisor. Theses may include a significant research and writing project or a creative performing arts project, such as the direction or design or stage management of a play. Instructor permission is required for registration into this course.

**Completion of 6 Hours from 2 sections and 9 hours from one section
(section A, B, & C)**

Unless a History/Lit emphasis is being pursued, then students should complete 6 hours in sections A, B, & C).

Section A: Design and Technology Emphasis

THTR 210 - Stage Makeup

3 Credit(s)

Fundamental elements of design and application of theatre makeup. Painted theatrical makeup, latex, crepe hair, putty wax, prosthetics, and simulated physical trauma will be executed in this course.

THTR 333 - Scenic Design

3 Credit(s)

This is an introductory-level, actively intensive, practical workshop, lecture, & discussion based class examining the

tools, materials, skills and practices of scenic design, while developing creative thinking and visual communication techniques for the theatre designer. The emphasis of the class is on the creative process, from conceptualization to the execution and presentation of the design idea, with a major focus being the exploration and use of unexpected associations, analogies, and visual metaphors as tools for inspiring and creating effective scenic designs.

Prerequisite(s):

THTR 351 Minimum Grade: C- OR T

THTR 334 - Lighting Design

3 Credit(s)

This is an introductory-level, actively intensive, practical workshop, lecture, & discussion based class examining the tools, materials, skills and practices of lighting design, while developing creative thinking and visual communication techniques for the theatre designer. The emphasis of the class is on the creative process, from conceptualization to the execution and presentation of the design idea, with a major focus being the exploration and practical application of the Controllable Qualities of Light, Functions of Stage Light, and Designing with Light, and producing the Lighting plot and related paperwork.

THTR 335 - Theatre Practicum

1 to 3 Credit(s)

Theatre Practicum is an applied course in which a student, in consultation with, and under the supervision of, a faculty member, undertakes a project related to the Design & Technology emphasis. The number of credits for Practicum is determined by the scope of the students project.

THTR 340 - Costume Design

3 Credit(s)

Fundamental elements of design and study of critical historical periods of costume from Greek through present day.

THTR 351 - Stagecraft II

3 Credit(s)

A hands-on approach to the fundamentals of technical theatre. Students will have the opportunity to learn mechanical drawing, stage carpentry, welding, set construction, stage lighting, scenery painting and the use of a variety of fasteners, hand tools, and power tools.

THTR 279 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

OR

THTR 379 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

Section B: Collaborative Creation Emphasis

THTR 205 - Improvisational Acting

3 Credit(s)

This course is an introduction to improvisation as a form of comedy entertainment. Both short and long form will be covered. Completion of this course is a prerequisite for membership in the Adams State University Improvisation Troupe.

THTR 336 - Theatre Practicum

1 to 3 Credit(s)

Theatre Practicum is an applied course in which a student, in consultation with, and under the supervision of, a faculty member, undertakes a project related to the Collaborative Creation emphasis. The number of credits for Practicum is determined by the scope of the students project.

THTR 345 - Improv Troupe Practicum

1 to 3 Credit(s)

Participation in college Improvisation Troupe under the supervision of the Theatre faculty. May be repeated for credit. No more than three credits will count towards major requirements. Instructor permission is required for registration into this course.

Prerequisite(s):

THTR 205 Minimum Grade: C-

THTR 347 - Theatre and Social Change

3 Credit(s)

This course is an introduction to the ideas and practice of theatre as a catalyst for social change. It examines the intersection between theatre, society, and political activism.

THTR 352 - Playwriting

3 Credit(s)

This course introduces the basics of playwriting, its form and structure. Utilizing multiple approaches to writing and capitalizing on the student's own creative thinking, the course will culminate in a staged reading of the students' work.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

THTR 368 - Performance Art

3 Credit(s)

A study of Performance Art with an emphasis on its history, theory, and creation of original performance.

THTR 279 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

THTR 379 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

Section C: Performance Emphasis

THTR 242 - Voice for Performance

3 Credit(s)

Study of the physical nature of voice production and the sound and mechanisms of speech, including articulation, register, and range. Individual analysis and performance.

THTR 288 - Physical Acting

3 Credit(s)

This course focuses on the physical aspects of acting. While previous acting courses introduced techniques dealing with creating a character, script analysis, and scene work, this course explores alternative movement-based approaches to acting. Instructor permission must be obtained to register for this course.

Prerequisite(s):

THTR 223 Minimum Grade: C- OR T

THTR 310 - Advanced Acting Techniques

3 Credit(s)

Advanced study of the techniques of acting. Emphasis will be placed on character and script analysis using the Stanislavski system of acting. Additionally, other significant theories of acting will be introduced. Instructor permission may be obtained to register for this course.

Prerequisite(s):

THTR 223 Minimum Grade: C- OR T

THTR 325 - Styles of Acting

3 Credit(s)

Character analysis and development involved in performing tragedy, serious drama, farce, and high comedy. Instructor permission must be obtained to register for this course.

Prerequisite(s):

THTR 223 Minimum Grade: C- OR T

THTR 337 - Theatre Practicum

1 to 3 Credit(s)

Theatre Practicum is an applied course in which a student, in consultation with, and under the supervision of, a faculty member, undertakes a project related to the Performance emphasis. The number of credits for Practicum is determined by the scope of the students project.

THTR 279 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

THTR 379 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

Note

Completion of 9 hours in section D (unless a History/Lit emphasis is being pursued then the student should complete 12 hours)

Section D: History & Literature

ENG 329 - Women and Drama

3 Credit(s)

A survey of the history and literature associated with women in theatre. The course will include the history of actual women involved in the evolution of western and eastern theatre traditions as well as playscripts which deal with the subject of women's issues. There will be a strong emphasis on the incorporation of contemporary dramatic theory, especially feminist theory, to analyze dramatic texts. The course will cover Greek through Contemporary Drama.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

OR

THTR 329 - Women and Drama

3 Credit(s)

A survey of the history and literature associated with women in theatre. The course will include the history of actual women involved in the evolution of western and eastern theatre traditions as well as playscripts which deal with the subject of women's issues. There will be a strong emphasis on the incorporation of contemporary dramatic theory, especially feminist theory, to analyze dramatic texts. The course will cover Greek through Contemporary Drama.

ENG 465 - Modern Theatre

3 Credit(s)

Study of theatre history and the diverse trends in dramatic literature during the 19th century and early to mid-20th century, as viewed through the works of the major playwrights of Europe and the United States. The focus of the course will be placed equally upon history, script analysis, and dramaturgy.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

THTR 465 - Modern Theatre

3 Credit(s)

Study of theatre history and the diverse trends in dramatic literature during the 19th century and early to mid-20th century, as viewed through the works of the major playwrights of Europe and the United States. The focus of the course will be placed equally upon history, script analysis, and dramaturgy.

ENG 470 - Classical Theatre

3 Credit(s)

A chronological study of the major periods of theatre history and dramatic literature, from the emergence of Greek Tragedy in the 5th century B.C. to English Restoration Comedy. The focus of the course will be placed equally upon history, script analysis and dramaturgy.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

OR

THTR 470 - Classical Theatre

3 Credit(s)

A chronological study of the major periods of theatre history and dramatic literature, from the emergence of Greek tragedy in the 5th century B.C. to English Restoration Comedy. The focus of the course will be placed equally upon history, script analysis and dramaturgy.

ENG 472 - Contemporary Theatre

3 Credit(s)

An inclusive study of theatre history and dramatic literature from 1965 through the present day with a specific emphasis on multicultural theatre. The focus of the course will be placed equally upon history, script analysis, and dramaturgy.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

THTR 472 - Contemporary Theatre

3 Credit(s)

An inclusive study of theatre history and dramatic literature from 1965 through the present day with a specific emphasis on multicultural theatre. The focus of the course will be placed equally upon history, script analysis, and dramaturgy.

THTR 320 - Censorship and the Arts

3 Credit(s)

This course focuses on the phenomenon of censorship in the United States with a specific emphasis on the First Amendment and case studies of censored artistic expression.

THTR 338 - Theatre Practicum

1 to 3 Credit(s)

Theatre Practicum is an applied course in which a student, in consultation with, and under the supervision of, a faculty member, undertakes a project related to the History & Literature emphasis. The number of credits for Practicum is determined by the scope of the students project.

THTR 279 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

OR

THTR 379 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

Bachelor of Arts in Theatre, Secondary English Licensure

Go to: Bachelor of Arts, Secondary Education Licensure

Go to: Theatre

1. Completion of the following

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

ENG 226 - Introduction to Linguistics

3 Credit(s)

This course is an in-depth introduction to linguistics. It will include discussion of the syntax, phonology, morphology, semantics, and pragmatics of English. Additionally it may include a basic introduction to issues such as historical linguistics, first and second language acquisition, psycholinguistics, sociolinguistics, and other issues relevant to the field.

Prerequisite(s):

ENG-101 Minimum Grade: C- OR T

ENG 227 - Introduction to Creative Writing

3 Credit(s)

Students write and read poetry, fiction, creative nonfiction, and drama, develop aesthetic standards, and evaluate their writing and that of their classmates. Course emphasizes the writing process, including strategies for invention and revision, and presents ideas for teaching creative writing.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

OR

ENG 363 - Professionalization and Publishing

3 Credit(s)

Students will practice writing at an intensive level beyond the research or argument papers they wrote in English 102, and beyond the literary critiques they have written for literature courses. Instruction will focus on real-world skills and

practical applications for writing. The course will also discuss writing-related career paths and professionalization techniques. Except for the senior capstone course, the writing here includes the ultimate writing tasks of the students undergraduate career. It is expected that several items from this course will contribute to the students' senior portfolio.

Prerequisite(s):

Junior or Senior Standing

OR

ENG 416 - The Teaching of Writing

3 Credit(s)

A study of theories about writing through reading, research, reflection, writing and practice. Students will practice the teaching of writing and develop instructional strategies and philosophies for all levels including college.

ENG 309 - British Literature I: Monsters and Magic

3 Credit(s)

This course is the first of a two-course historical survey of British Literature from the sixth to the twenty-first centuries. English 309 starts with the pre-Norman writers and ends in the mid eighteenth century. Eng. 310 begins with the eighteenth century and ends with contemporary authors. This combination of courses will lay the foundation for more advanced, focused study of specific authors and periods in the British literary tradition. Neither 309 or 310 will assume the other as a prerequisite.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

OR

ENG 310 - British Literature II: Bodies and Empire

3 Credit(s)

This course is the second of a two-course historical survey of British Literature from the sixth to the twenty-first centuries. English 309 starts with the pre-Norman writers and ends in the mid eighteenth century. Eng. 310 begins with the eighteenth century and ends with contemporary authors. This combination of courses will lay the foundation for more advanced, focused study of specific authors and periods in the British literary tradition. Neither 309 or 310 will assume the other as a prerequisite.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 316 - Methods/English in Secondary School

3 Credit(s)

A study of effective teaching methods used in presenting grammar, composition, and literature to junior and senior school students. Usually taken as part of the Education licensure senior block. Students should have a strong

preparation in upper-division English content courses. Admission to the Teacher Education Program is required. This course must be taken along with other courses designated in the senior block. Students wishing to take the course who do not meet the above requirements must obtain instructor permission.

Prerequisite(s):

ED 200 Minimum Grade: C OR T
AND

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

AND

ENG 226 Minimum Grade: C- OR T

AND

Admission to the Educator Preparation Program

AND

Teacher Education Background Check Passed

AND

ED 220 Minimum Grade: T

ENG 329 - Women and Drama

3 Credit(s)

A survey of the history and literature associated with women in theatre. The course will include the history of actual women involved in the evolution of western and eastern theatre traditions as well as playscripts which deal with the subject of women's issues. There will be a strong emphasis on the incorporation of contemporary dramatic theory, especially feminist theory, to analyze dramatic texts. The course will cover Greek through Contemporary Drama.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

OR

ENG 365 - Ethnic and Minority Literature

3 Credit(s)

A study of the literature of Native American, African-American, Chicano, and other American ethnic and minority groups.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

OR

ENG 375 - Chicano Literature

3 Credit(s)

This course explores the canon of Chicana/o Literature and its multiple influences. Specifically, the course deals with the cultural, political and societal climates that necessitated the literature. The course will focus on oral tradition and its evolution into other genres of Chicana/o Literature (poetry, fiction, & essay). Chicana/o Literature (poetry, fiction, & essay).

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

OR

ENG 385 - Women and Literature

3 Credit(s)

A survey of literature written by women beginning with Sappho and focusing on the western tradition. An introduction to feminist literary criticism.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

OR

ENG 472 - Contemporary Theatre

3 Credit(s)

An inclusive study of theatre history and dramatic literature from 1965 through the present day with a specific emphasis on multicultural theatre. The focus of the course will be placed equally upon history, script analysis, and dramaturgy.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

THTR 472 - Contemporary Theatre

3 Credit(s)

An inclusive study of theatre history and dramatic literature from 1965 through the present day with a specific emphasis on multicultural theatre. The focus of the course will be placed equally upon history, script analysis, and dramaturgy.

ENG 394 - American Literature I: Discovery and Colonization

3 Credit(s)

Several of the figures studied in this class-such as Christopher Columbus, Anne Bradstreet, Hector St. Jean de Crevecoeur, and Thomas Jefferson-are frequently referenced in contemporary discussions of the American "character," yet are poorly understood by most. A basic knowledge of the literatures of colonial America and the early United States deepens students' understanding of these figures, and hence of American history, culture, politics, and identity. This course complements American Literature II and is required of all English liberal arts and secondary education majors.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

OR

ENG 395 - American Literature II: Marginalized Voices

3 Credit(s)

Survey of American literature from 1865 to the present. Thematic emphases include the development of African American, Native American, and feminist literary traditions; industrialization, urbanization, and the closing of the frontier; realism, naturalism, and modernism; the Lost Generation; and the Sixties and postmodernism.

Prerequisite(s):

ENG 203 or Instructor's Permission

Co-requisite(s): ENG 203 or Instructor's Permission

ENG 403 - Shakespeare

3 Credit(s)

Combines study of comedies, histories, and tragedies.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

SPCH 100 - Speech Fundamentals

3 Credit(s)

A course designed to develop proficiency in oral communication: interpersonal, group, and public discourse.

THTR 223 - Acting

3 Credit(s)

An introduction to the art of performing using the Stanislavski system of acting. Classes will consist primarily of in-class activities designed to demonstrate acting concepts and principles. This course requires active participation in discussions, exercises, and the presentation of performances.

THTR 251 - Stagecraft I

3 Credit(s)

An introductory course that explores the basic skills, principles, and techniques of Technical Theatre production: Production Organization & Management, Scenery and Props, Lighting & Electrics, Sound, and Costuming & Makeup. An emphasis on both theory and gaining practical, hands-on experience with Theatre tools, equipment, and common practices.

THTR 285 - Production Management

3 Credit(s)

This course presents information, materials, experiences, and projects that will lead students to an understanding of the functions of technical direction and stage and theatre management. It will teach students to become practicing, problem solving technical directors, stage managers and house managers.

Prerequisite(s):

THTR 251 Minimum Grade: C-

THTR 310 - Advanced Acting Techniques

3 Credit(s)

Advanced study of the techniques of acting. Emphasis will be placed on character and script analysis using the Stanislavski system of acting. Additionally, other significant theories of acting will be introduced. Instructor permission may be obtained to register for this course.

Prerequisite(s):

THTR 223 Minimum Grade: C- OR T

THTR 333 - Scenic Design

3 Credit(s)

This is an introductory-level, actively intensive, practical workshop, lecture, & discussion based class examining the tools, materials, skills and practices of scenic design, while developing creative thinking and visual communication techniques for the theatre designer. The emphasis of the class is on the creative process, from conceptualization to the execution and presentation of the design idea, with a major focus being the exploration and use of unexpected

associations, analogies, and visual metaphors as tools for inspiring and creating effective scenic designs.

Prerequisite(s):

THTR 351 Minimum Grade: C- OR T

OR

THTR 334 - Lighting Design

3 Credit(s)

This is an introductory-level, actively intensive, practical workshop, lecture, & discussion based class examining the tools, materials, skills and practices of lighting design, while developing creative thinking and visual communication techniques for the theatre designer. The emphasis of the class is on the creative process, from conceptualization to the execution and presentation of the design idea, with a major focus being the exploration and practical application of the Controllable Qualities of Light, Functions of Stage Light, and Designing with Light, and producing the Lighting plot and related paperwork.

OR

THTR 340 - Costume Design

3 Credit(s)

Fundamental elements of design and study of critical historical periods of costume from Greek through present day.

THTR 385 - Play Direction

3 Credit(s)

A comprehensive study of the numerous, functions of the stage director, from pre-season play selection to post-production evaluation. The focus will be placed upon script analysis, development of design concepts, principles of blocking and movement, pacing, and communicating with actors and the design team.

Prerequisite(s):

THTR 223 Minimum Grade: C- OR T

THTR 480 - Dramatic Theory and Criticism

3 Credit(s)

An advanced examination of selected critical writings of major theorists and critical theories in theatre, beginning with the study of Aristotle and including the application of contemporary theories to a variety of playscripts.

THTR 490 - Senior Thesis

3 Credit(s)

An advanced examination of a single area of theatre. This is the graduating senior's capstone project. The precise nature of the project will be designed in consultation with the student's advisor. Theses may include a significant research and writing project or a creative performing arts project, such as the direction or design or stage management of a play. Instructor permission is required for registration into this course.

Plus Additional Secondary Education Licensure Requirements from the School of Education

Bachelor of Arts, Secondary Education Licensure

Bachelor of Arts, K-12 Education Licensure

Go to: Educational Preparation

Undergraduate students typically enter the program in their sophomore or junior year, after completing the Undergraduate General Education Requirements, content coursework, and requirements for their academic major. Students may apply for admission to the Teacher Education Preparation Program, and if admitted, follow the stages of the program.

Choose a Major, and Complete those Requirements

- Bachelor of Arts in Art Education, K-12 Licensure
- Bachelor of Arts in Music Education, K-12 Licensure

Complete the Licensure Requirements

ED 200 - Perspectives of Teaching and Learning

3 Credit(s)

A study of school, societal and cultural issues and their influences on teaching and learning. As an introductory course, the purpose is to learn about teaching as a career choice, the historical development of American education, social and political structures in the schools, and power groups influencing educational policy. Issues of educational reform will include civil rights, students' rights, ethnic, gender and racial issues, individualizing instructions, special education, learning theory models, (inclusive of diversity issues related to electronic media) and alternative school structures. Emphasis is placed on the orientation and development of a proficient and reflective professional educator. A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

ED 220 - The Exceptional Learner

3 Credit(s)

This course is designed to survey the foundations of special education, including historical, philosophical perspectives, legal issues and current trends in instruction and programming. Students will explore the role of general education as it relates to the education of the student with exceptional needs. Emphasis will be placed on developing knowledge of various disabling conditions, available resources and educational alternatives. Students will learn about the ethical and sociopolitical influences on prevention, intervention and educational programs for students with special needs, from birth through post-secondary ages. Learning characteristics and the diverse needs of students who receive special

education services will also be studied. From a pedagogically sound, as well as developmentally appropriate perspective, the similarities and differences within and between exceptionalities and typical development will be emphasized. A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office PRIOR to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

ED 345 - Educational Psychology

3 Credit(s)

Designed to explore the background of educational psychology. Major topic areas include: research, value and utilization, student characteristics and diversity, learning theories and their application, motivation, teaching methods and practices, evaluating student learning, and standardized measurements. Students will develop increased ability to understand and assess the interrelationships of intellectual, cognitive, instructional, personality, social and cultural influences, theories, and factors as they affect the learning environments. Students will cover assessment procedures, analysis of data, legal and ethical responsibilities as part of necessary research and evaluation within the school learning environment. Emphasis is placed on developing knowledge of historical and current research and its meaning for interaction and planning in the school setting.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

ED 347 - Teaching, Learning, and Technology

3 Credit(s)

This course is an introduction to the theories and applications of appropriate and effective uses of technology to achieve pedagogical goals. Content includes exploring emerging technologies, designing lessons aligned to the Colorado Essential Skills, integrating digital tools to strengthen teaching and improve student learning, identifying guidelines for designing and implementing online learning environments, comparing various theories of teaching and learning related to the design of virtual lessons/online programs, and describing effective instructional strategies for online learning. Using technology in K-12 classrooms is relevant to prepare students for success in post-secondary and workforce settings.

Prerequisite(s):

Clear Fingerprint background check

Pass PRAXIS II

Complete Senior Block

- Students must be admitted to the Teacher Education Preparation Program before they complete the Senior Block
- Students must earn a grade of C or better in each of the Senior Block courses.
- Senior Block courses must be taken concurrently.

ED 414 - Inclusive and Safe Classroom Management

3 Credit(s)

This course explores the foundational principles of effective classroom instruction, behavior evaluation, and management techniques while promoting a safe and healthy school environment. This course equips candidates with critical thinking skills to design and implement successful classroom management strategies, emphasizing student achievement through effective time management, communication, and record-keeping procedures. Candidates will also develop comprehensive management plans. Candidates will examine school law and professional ethics for educators. They will gain insights into the legal and ethical frameworks that guide their roles as educators, ensuring they are well-prepared to uphold the highest standards of professionalism and integrity. The content of this course addresses health and wellness topics, including conflict resolution, mediation, nutrition, emergency protocols, and first aid within the educational setting. Candidates will design and implement SEL curricula, considering diverse student needs and crisis prevention and intervention strategies. This course is essential for educators to create a safe, healthy, and inclusive learning environment.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to the Educator Preparation Program; Clear Fingerprint background check

Co-requisite(s): ED 434L

ED 426 - Pedagogical Strategies for Cultural Competence

3 Credit(s)

This is a dynamic and transformative course designed to equip future educators with the essential knowledge and skills to foster cultural competence in the classroom. Students will engage in learning that enhances their ability to use data to better understand and respond to diversity in their respective schools and communities. They will critically examine the impact of cultural values and bias on school curriculum and teacher practice, while applying strategies aimed at creating more culturally responsive experiences for diverse children. Students will also deepen their understanding and practice in working with vulnerable students and families, including those facing abuse, trauma, generational poverty and other forms of crisis.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

Co-requisite(s): ED 434L

ED 429 - Content Area Literacy

2 Credit(s)

Approaches and strategies for teaching secondary reading in various subject areas. Topics include textbook selection and readability, comprehension skills, study skills, and meeting needs of diverse student populations.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to the Educator Preparation Program; Teacher Education Background Check Passed

Co-requisite(s): ED 434L

ED 434L - Field Experience Lab

3 Credit(s)

Senior Block component. Labs scheduled one day per week, eight hours per day. Students complete field hours as arranged by the Teacher Education office. Reflections and proficiencies demonstrated during this experience meet requirements for evidences related to concurrent (senior block) courses. Supervision is provided by senior block course instructors. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

ED 455 - Student Teaching K-12

1 to 15 Credit(s)

This field experience serves as a culmination of the teacher licensure program and provides student teachers with a comprehensive experience in a public school setting. Students must complete all components outlined in the Student Teaching Handbook. A team of faculty supervisors and mentors will help the student teacher acquire the necessary skills in the practice of building a community of learners while teaching and learning. The community of learners includes the student teacher, the cooperating mentor teacher, the university field supervisor, the building principal, and the classroom students. This student teaching experience requires a minimum of 640 hours of contact time.

Prerequisite(s):

Admission to Ed Prep Program; Permission to Student Teach; Clear Fingerprint background check

Bachelor of Arts, Secondary Education Licensure

Go to: Educational Preparation

Students preparing to teach in a content area, grades 7-12, must complete an undergraduate degree in a state-approved content area (business, English, mathematics, science, social studies, foreign language) with coursework and field experience in educational practices, content area literacy, and content methods.

Pick Your Academic Major

- Bachelor of Arts in Biology, Science Education Emphasis with Secondary Teacher Licensure
- Bachelor of Arts in Business Administration, Business Teacher Education Emphasis with Secondary Teacher Licensure
- Bachelor of Arts in Chemistry, Science Education Emphasis with Secondary Teacher Licensure
- Bachelor of Arts in English, Secondary Teacher Licensure
- Bachelor of Arts in Geosciences, Science Education Emphasis with Geosciences Secondary Teacher Licensure
- Bachelor of Arts in HAPS, Social Studies Emphasis with Secondary Teacher Licensure
- Bachelor of Arts in Mathematics, Secondary Teacher Licensure
- Bachelor of Arts in Spanish, Secondary Teacher Licensure
- Bachelor of Arts in Theatre, Secondary English Licensure

Complete All Secondary Licensure Requirements

ED 200 - Perspectives of Teaching and Learning

3 Credit(s)

A study of school, societal and cultural issues and their influences on teaching and learning. As an introductory course, the purpose is to learn about teaching as a career choice, the historical development of American education, social and political structures in the schools, and power groups influencing educational policy. Issues of educational reform will include civil rights, students' rights, ethnic, gender and racial issues, individualizing instructions, special education, learning theory models, (inclusive of diversity issues related to electronic media) and alternative school structures. Emphasis is placed on the orientation and development of a proficient and reflective professional educator. A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

ED 220 - The Exceptional Learner

3 Credit(s)

This course is designed to survey the foundations of special education, including historical, philosophical perspectives, legal issues and current trends in instruction and programming. Students will explore the role of general education as it

relates to the education of the student with exceptional needs. Emphasis will be placed on developing knowledge of various disabling conditions, available resources and educational alternatives. Students will learn about the ethical and sociopolitical influences on prevention, intervention and educational programs for students with special needs, from birth through post-secondary ages. Learning characteristics and the diverse needs of students who receive special education services will also be studied. From a pedagogically sound, as well as developmentally appropriate perspective, the similarities and differences within and between exceptionalities and typical development will be emphasized. A 20-hour, supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office PRIOR to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

ED 345 - Educational Psychology

3 Credit(s)

Designed to explore the background of educational psychology. Major topic areas include: research, value and utilization, student characteristics and diversity, learning theories and their application, motivation, teaching methods and practices, evaluating student learning, and standardized measurements. Students will develop increased ability to understand and assess the interrelationships of intellectual, cognitive, instructional, personality, social and cultural influences, theories, and factors as they affect the learning environments. Students will cover assessment procedures, analysis of data, legal and ethical responsibilities as part of necessary research and evaluation within the school learning environment. Emphasis is placed on developing knowledge of historical and current research and its meaning for interaction and planning in the school setting.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

ED 347 - Teaching, Learning, and Technology

3 Credit(s)

This course is an introduction to the theories and applications of appropriate and effective uses of technology to achieve pedagogical goals. Content includes exploring emerging technologies, designing lessons aligned to the Colorado Essential Skills, integrating digital tools to strengthen teaching and improve student learning, identifying guidelines for designing and implementing online learning environments, comparing various theories of teaching and learning related to the design of virtual lessons/online programs, and describing effective instructional strategies for online learning. Using technology in K-12 classrooms is relevant to prepare students for success in post-secondary and workforce settings.

Prerequisite(s):

Clear Fingerprint background check

Complete Content Methods for your Area

ED 304 - Secondary Teaching and Learning Methods

3 Credit(s)

This course is an introduction to concepts and techniques of imparting state academic standards to middle and high

school students. A study of effective teaching methods used in preparing a secondary education majors in Business, Language Arts, Social Studies, and World Languages.

NOTE:

- A 40-hour, pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field-experience. Photo IDs must be obtained PRIOR to the beginning of the field-experience component.
- Field-experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

ED 340 - Methods for Teaching Math - Secondary

3 Credit(s)

This course is designed to support the beginning secondary math teacher. Presuming a solid foundation of conceptual knowledge in the content area, the course emphasizes the development of a framework of instructional knowledge and skills to provide successful learning for all students.

NOTE:

- A 40 hour pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

ED 350 - Methods for Teaching Science - Secondary

3 Credit(s)

This course is designed to support the beginning secondary science teacher. Presuming a solid foundation of conceptual knowledge in the content area, the course emphasizes the development of a framework of instructional knowledge and skills to provide successful learning for all students.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

Pass PRAXIS II

Complete Senior Block (EPP Admission Required)

ED 414 - Inclusive and Safe Classroom Management

3 Credit(s)

This course explores the foundational principles of effective classroom instruction, behavior evaluation, and management techniques while promoting a safe and healthy school environment. This course equips candidates with critical thinking skills to design and implement successful classroom management strategies, emphasizing student achievement through effective time management, communication, and record-keeping procedures. Candidates will also develop comprehensive management plans. Candidates will examine school law and professional ethics for educators. They will gain insights into the legal and ethical frameworks that guide their roles as educators, ensuring they are well-prepared to uphold the highest standards of professionalism and integrity. The content of this course addresses health and wellness topics, including conflict resolution, mediation, nutrition, emergency protocols, and first aid within the educational setting. Candidates will design and implement SEL curricula, considering diverse student needs and crisis prevention and intervention strategies. This course is essential for educators to create a safe, healthy, and inclusive learning environment.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to the Educator Preparation Program; Clear Fingerprint background check

Co-requisite(s): ED 434L

ED 426 - Pedagogical Strategies for Cultural Competence

3 Credit(s)

This is a dynamic and transformative course designed to equip future educators with the essential knowledge and skills to foster cultural competence in the classroom. Students will engage in learning that enhances their ability to use data to better understand and respond to diversity in their respective schools and communities. They will critically examine the impact of cultural values and bias on school curriculum and teacher practice, while applying strategies aimed at creating more culturally responsive experiences for diverse children. Students will also deepen their understanding and practice in working with vulnerable students and families, including those facing abuse, trauma, generational poverty and other forms of crisis.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

Co-requisite(s): ED 434L

ED 429 - Content Area Literacy

2 Credit(s)

Approaches and strategies for teaching secondary reading in various subject areas. Topics include textbook selection and readability, comprehension skills, study skills, and meeting needs of diverse student populations.

NOTE:

- A pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component.
- Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to the Educator Preparation Program; Teacher Education Background Check Passed

Co-requisite(s): ED 434L

ED 434L - Field Experience Lab

3 Credit(s)

Senior Block component. Labs scheduled one day per week, eight hours per day. Students complete field hours as arranged by the Teacher Education office. Reflections and proficiencies demonstrated during this experience meet requirements for evidences related to concurrent (senior block) courses. Supervision is provided by senior block course instructors. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Admission to Ed Prep Program; Clear Fingerprint background check

Complete Student Teaching

ED 445 - Student Teaching - Secondary

1 to 15 Credit(s)

This field experience serves as a culmination of the teacher licensure program and provides student teachers with a comprehensive experience in a public school setting. Students must complete all components outlined in the Student Teaching Handbook. A team of faculty supervisors and mentors will help the student teacher acquire the necessary skills in the practice of building a community of learners while teaching and learning. The community of learners includes the student teacher, the cooperating mentor teacher, the university field supervisor, the building principal, and

the classroom students. This student teaching experience requires a minimum of 640 hours of contact time.

Prerequisite(s):

Admission to Ed Prep Program; Permission to Student Teach; Clear Fingerprint background check

Bachelor of Fine Arts in 3D Form and Extended Media

Go to: Art

Specific courses required for this degree:

Core Requirements (75 Credits)

AR 105 - Introduction to Art Criticism

3 Credit(s)

This course introduces students to art criticism and critical thinking in the field of visual art. Exercises in reading about art, observing art, and talking and writing about art, will develop the student's ability to discuss their own work and a wide variety of artworks by others. Students will be introduced to and practice techniques for reading, thinking, writing, and speaking critically as applied to art.

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

AR 252 - Beginning 3D - Form and Extended Media

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills

related to fabrication and subtractive processes and materials. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in introductory metal fabrication, CAD/CAM technology, metal casting, and wood or stone carving. This course has a course specific fee to cover the costs of some materials.

AR 364 - History of Art I

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms prehistoric times to the Eighteenth Century.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 365 - History of Art II

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms from the 18th Century to the 21st Century. Additionally this course includes a brief survey of the arts of African, Asian, and Native American cultures.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

- AR 3XX - Art History/Theatre History **3 Credit(s)**

AR 305 - Art Theory

3 Credit(s)

A lecture course that covers major themes in art theory and asks students to articulate which aspects of art theory relate to their studio work and how they relate.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AND

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

AR 405 - Seminar in Art

3 Credit(s)

This course is a seminar class that combines research into art theory and art history with discussions about the conceptual, formal and technical aspects of studio work.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

AR 498 - Professional Practice

3 Credit(s)

Designed to be the capstone experience for all students who have majored in Art. Students will organize a group exhibition of their work and prepare portfolios and other tools for professional futures. Emphasis will be placed on responsible teamwork and professionalism.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

AR XXX: 2D Elective (3 Hours)

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR XXX: Design Elective

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 306 - Illustrator

3 Credit(s)

This course is an advanced design class. Using Adobe Illustrator, students will study design concepts related to computer graphics, illustration, and typography as well as historical traditions in graphic design.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T

OR

AR 281 Minimum Grade: C- OR T

AR 310 - Photoshop

3 Credit(s)

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T

OR

AR 281 Minimum Grade: C- OR T

3D Material Studies Core

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 454 - Advanced 3D Material Study I

3 Credit(s)

Students will engage in advanced sculptural work using diverse materials. This course offers studio assignments that question and solidify artistic vocabulary and studio work. Curriculum includes regular seminar discussions and presentations based on assigned readings and local lectures. Contemporary issues and ideas in sculpture and material studies are a primary focus of these discussions. This course places a strong emphasis on establishing studio works and complete artist's portfolios. There is a specific course fee to cover the cost of some materials.

AR 497 - BFA Exhibition

6 Credit(s)

A capstone course that involves the creation and exhibition of a cohesive body of creative work.

Prerequisite(s):

BFA Thesis Passed

Co-requisite(s): AR 498

Plus 12 Hours From

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-

OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing

3 Credit(s)

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged

to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

Bachelor of Fine Arts in Drawing

Go to: [Art](#)

Specific courses required for this degree:

Core Requirements (75 Credits)

AR 105 - Introduction to Art Criticism

3 Credit(s)

This course introduces students to art criticism and critical thinking in the field of visual art. Exercises in reading about art, observing art, and talking and writing about art, will develop the student's ability to discuss their own work and a wide variety of artworks by others. Students will be introduced to and practice techniques for reading, thinking, writing, and speaking critically as applied to art.

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

AR 252 - Beginning 3D - Form and Extended Media

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to fabrication and subtractive processes and materials. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in introductory metal fabrication, CAD/CAM technology, metal casting, and wood or stone carving. This course has a course specific fee to cover the costs of some materials.

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3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms prehistoric times to the Eighteenth Century.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

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3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms from the 18th Century to the 21st Century. Additionally this course includes a brief survey of the arts of African, Asian, and Native American cultures.

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3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

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AR 305 - Art Theory

3 Credit(s)

A lecture course that covers major themes in art theory and asks students to articulate which aspects of art theory relate to their studio work and how they relate.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AND

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

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3 Credit(s)

This course is a seminar class that combines research into art theory and art history with discussions about the conceptual, formal and technical aspects of studio work.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

AR 498 - Professional Practice

3 Credit(s)

Designed to be the capstone experience for all students who have majored in Art. Students will organize a group exhibition of their work and prepare portfolios and other tools for professional futures. Emphasis will be placed on responsible teamwork and professionalism.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

AR XXX: 2D Elective (3 Hours)

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

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3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

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3 Credit(s)

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3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

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3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and

glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

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3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

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3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

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3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

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3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

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3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

AR XXX: 2D or 3D Elective (3 Hours)

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 320 - Intermediate Painting I

3 Credit(s)

Intermediate study of painting media with emphasis on perceptual abilities and personal expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- or T
AND

AR 220 Minimum Grade: C- or T

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills

related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing

3 Credit(s)

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

AR XXX: Design Elective

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 306 - Illustrator

3 Credit(s)

This course is an advanced design class. Using Adobe Illustrator, students will study design concepts related to computer graphics, illustration, and typography as well as historical traditions in graphic design.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

AR 310 - Photoshop

3 Credit(s)

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

Drawing Emphasis

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR 309 - Intermediate Drawing II

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 308 Minimum Grade: C- OR T

AR 410 - Advanced Drawing I

3 Credit(s)

Advanced personal concepts, media experimentation, and aesthetics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 309 Minimum Grade: C- OR T

AR 411 - Advanced Drawing II

3 Credit(s)

Exploration of drawing as a medium for expression with emphasis on developing a personal style. Progress towards developing a cohesive body of work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 410 Minimum Grade: C- OR T

Plus 6 Credits From

- AR XXX - Art Studio Elective **3 Credit(s)**

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 360 - Intermediate Printmaking

3 Credit(s)

Further exploration of printmaking using all processes. Emphasis on composition, media exploration, and color processes. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 260 Minimum Grade: C- OR T
OR

AR 261 Minimum Grade: C- OR T

AR 497 - BFA Exhibition

6 Credit(s)

A capstone course that involves the creation and exhibition of a cohesive body of creative work.

Prerequisite(s):

BFA Thesis Passed

Co-requisite(s): AR 498

- Elective Credits **14 Credit(s)**

Bachelor of Fine Arts in Graphic Design

Go to: [Art](#)

Specific courses required for this degree:

Core Requirements (75 Credits)

AR 105 - Introduction to Art Criticism

3 Credit(s)

This course introduces students to art criticism and critical thinking in the field of visual art. Exercises in reading about art, observing art, and talking and writing about art, will develop the student's ability to discuss their own work and a wide variety of artworks by others. Students will be introduced to and practice techniques for reading, thinking, writing, and speaking critically as applied to art.

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 252 - Beginning 3D - Form and Extended Media

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to fabrication and subtractive processes and materials. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in introductory metal fabrication, CAD/CAM technology, metal casting, and wood or stone carving. This course has a course specific fee to cover the costs of some materials.

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 364 - History of Art I

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms prehistoric times to the Eighteenth Century.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 365 - History of Art II

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms from the 18th Century to the 21st Century. Additionally this course includes a brief survey of the arts of African, Asian, and Native American cultures.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

- AR 3XX - Art History/Theatre History **3 Credit(s)**

AR 305 - Art Theory

3 Credit(s)

A lecture course that covers major themes in art theory and asks students to articulate which aspects of art theory relate to their studio work and how they relate.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AND

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

AR 405 - Seminar in Art

3 Credit(s)

This course is a seminar class that combines research into art theory and art history with discussions about the conceptual, formal and technical aspects of studio work.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

AR 498 - Professional Practice

3 Credit(s)

Designed to be the capstone experience for all students who have majored in Art. Students will organize a group exhibition of their work and prepare portfolios and other tools for professional futures. Emphasis will be placed on responsible teamwork and professionalism.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

AR XXX: 2D Elective (3 Hours)

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own

35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR 320 - Intermediate Painting I

3 Credit(s)

Intermediate study of painting media with emphasis on perceptual abilities and personal expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- or T

AND

AR 220 Minimum Grade: C- or T

AR XXX: 3D Elective (3 Hours)

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting**3 Credit(s)**

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture**3 Credit(s)**

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing**3 Credit(s)**

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

AR XXX: 2D or 3D Elective (3 Hours)

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR 320 - Intermediate Painting I

3 Credit(s)

Intermediate study of painting media with emphasis on perceptual abilities and personal expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- or T
AND

AR 220 Minimum Grade: C- or T

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative

expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing

3 Credit(s)

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

15 Credits From

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 301 - Typography

3 Credit(s)

This course is intended primarily for art majors who chose graphic design as their area of emphasis. It is also open to any other art major or non-art major. This course will focus on a broad study of typography, its terminology, history, and application in the field of graphic design.

Prerequisite(s):

AR 206 Minimum Grade: C- OR T

AR 306 - Illustrator

3 Credit(s)

This course is an advanced design class. Using Adobe Illustrator, students will study design concepts related to computer graphics, illustration, and typography as well as historical traditions in graphic design.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T

OR

AR 281 Minimum Grade: C- OR T

AR 310 - Photoshop

3 Credit(s)

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

AR 312 - Design for the Internet**3 Credit(s)**

This course will provide an introduction to theories and practical experience with graphic design as applied to the Internet. Students will study the basics in web page and web site design using current industry standard software, HTML and XHTML. Within the course, students will create web pages and sites suitable for course work, professional purposes, and personal use. Students will also explore common web page formats and functions. Emphasis will be on the aesthetics of Internet design.

AR 401 - Advanced Graphic Design**3 Credit(s)**

An advanced study of the design relating to the work of the graphic designer. Students learn PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 306 Minimum Grade: C- OR T
AND

AR 310 Minimum Grade: C- OR T

AR 381 - Intermediate Digital Photography**3 Credit(s)**

Continued exploration of digital photography as an art medium. The course will delve further into photographic applications in Adobe Photoshop with emphasis on maximizing image quality using masks and blending modes. Introduction to fine art printing and papers. Emphasis on concept and creative expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 281 Minimum Grade: C- OR T

- ART Studio Elective **3 Credit(s)**

AR 497 - BFA Exhibition**6 Credit(s)**

A capstone course that involves the creation and exhibition of a cohesive body of creative work.

Prerequisite(s):

BFA Thesis Passed

Co-requisite(s): AR 498

Elective Credits (14 Credits)

Bachelor of Fine Arts in Painting

Go to: Art

Specific courses required for this degree:

Core Requirements

AR 105 - Introduction to Art Criticism

3 Credit(s)

This course introduces students to art criticism and critical thinking in the field of visual art. Exercises in reading about art, observing art, and talking and writing about art, will develop the student's ability to discuss their own work and a wide variety of artworks by others. Students will be introduced to and practice techniques for reading, thinking, writing, and speaking critically as applied to art.

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

AR 252 - Beginning 3D - Form and Extended Media

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to fabrication and subtractive processes and materials. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in introductory metal fabrication, CAD/CAM technology, metal casting, and wood or stone carving. This course has a course specific fee to cover the costs of some materials.

AR 364 - History of Art I

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms prehistoric times to the Eighteenth Century.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 365 - History of Art II

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms from the 18th Century to the 21st Century. Additionally this course includes a brief survey of the arts of African, Asian, and Native American cultures.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

- AR 3XX - Art History/Theatre History **3 Credit(s)**

AR 305 - Art Theory

3 Credit(s)

A lecture course that covers major themes in art theory and asks students to articulate which aspects of art theory relate to their studio work and how they relate.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AND

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

AR 405 - Seminar in Art

3 Credit(s)

This course is a seminar class that combines research into art theory and art history with discussions about the conceptual, formal and technical aspects of studio work.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

AR 498 - Professional Practice

3 Credit(s)

Designed to be the capstone experience for all students who have majored in Art. Students will organize a group exhibition of their work and prepare portfolios and other tools for professional futures. Emphasis will be placed on responsible teamwork and professionalism.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

AR XXX: 2D Elective (3 Hours)

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR XXX: 3D Elective (3 Hours)

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual

work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing

3 Credit(s)

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

AR XXX: 2D or 3D Elective (3 Hours)

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such

as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR 320 - Intermediate Painting I

3 Credit(s)

Intermediate study of painting media with emphasis on perceptual abilities and personal expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- or T

AND

AR 220 Minimum Grade: C- or T

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing

3 Credit(s)

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

AR XXX: Design Elective

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 306 - Illustrator

3 Credit(s)

This course is an advanced design class. Using Adobe Illustrator, students will study design concepts related to computer graphics, illustration, and typography as well as historical traditions in graphic design.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

AR 310 - Photoshop

3 Credit(s)

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

Emphasis Requirements

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR 320 - Intermediate Painting I

3 Credit(s)

Intermediate study of painting media with emphasis on perceptual abilities and personal expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- or T

AND

AR 220 Minimum Grade: C- or T

AR 321 - Intermediate Painting II

3 Credit(s)

Intermediate study of painting media with emphasis on perceptual abilities and personal expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 320 Minimum Grade: C- OR T

AR 422 - Advanced Painting I

3 Credit(s)

Advanced studio problems, emphasizing perceptual and conceptual abilities and personal expression as related to painting media. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 321 Minimum Grade: C- OR T

AR 423 - Advanced Painting II

Advanced studio problems, emphasizing perceptual and conceptual abilities and personal expression as related to painting media. This course has a course specific fee to cover the costs of some materials.

AR 497 - BFA Exhibition

6 Credit(s)

A capstone course that involves the creation and exhibition of a cohesive body of creative work.

Prerequisite(s):

BFA Thesis Passed

Co-requisite(s): AR 498

Elective Credits (14 Credits)

Bachelor of Fine Arts in Photography

Go to: Art

Specific courses required for this degree:

Core Requirements

AR 105 - Introduction to Art Criticism

3 Credit(s)

This course introduces students to art criticism and critical thinking in the field of visual art. Exercises in reading about art, observing art, and talking and writing about art, will develop the student's ability to discuss their own work and a wide variety of artworks by others. Students will be introduced to and practice techniques for reading, thinking, writing, and speaking critically as applied to art.

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

AR 252 - Beginning 3D - Form and Extended Media

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to fabrication and subtractive processes and materials. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in introductory metal fabrication, CAD/CAM technology, metal casting, and wood or stone carving. This course has a course specific fee to cover the costs of some materials.

AR 364 - History of Art I

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms prehistoric times to the Eighteenth Century.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 365 - History of Art II

3 Credit(s)

A survey of architecture, painting, sculpture, and other visual art forms from the 18th Century to the 21st Century. Additionally this course includes a brief survey of the arts of African, Asian, and Native American cultures.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

- AR 3XX - Art History/Theatre History **3 Credit(s)**

AR 305 - Art Theory

3 Credit(s)

A lecture course that covers major themes in art theory and asks students to articulate which aspects of art theory relate to their studio work and how they relate.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T
AND

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

AR 405 - Seminar in Art

3 Credit(s)

This course is a seminar class that combines research into art theory and art history with discussions about the conceptual, formal and technical aspects of studio work.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

AR 498 - Professional Practice

3 Credit(s)

Designed to be the capstone experience for all students who have majored in Art. Students will organize a group exhibition of their work and prepare portfolios and other tools for professional futures. Emphasis will be placed on responsible teamwork and professionalism.

Prerequisite(s):

AR 305 Minimum Grade: C- OR T

AR XXX: 2D Elective (3 Hours)

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR XXX: 3D Elective (3 Hours)

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-

OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing

3 Credit(s)

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course

emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-

OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

AR XXX: 2D or 3D Elective (3 Hours)

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR 320 - Intermediate Painting I

3 Credit(s)

Intermediate study of painting media with emphasis on perceptual abilities and personal expression. This course has a

course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- or T
AND

AR 220 Minimum Grade: C- or T

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-

OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing**3 Credit(s)**

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing**3 Credit(s)**

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes**3 Credit(s)**

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-

OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking**3 Credit(s)**

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber,

traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

AR XXX: Design Elective

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 306 - Illustrator

3 Credit(s)

This course is an advanced design class. Using Adobe Illustrator, students will study design concepts related to computer graphics, illustration, and typography as well as historical traditions in graphic design.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

AR 310 - Photoshop

3 Credit(s)

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

Photography Emphasis Requirements

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 380 - Intermediate Photography

3 Credit(s)

Continued exploration of photography as an art medium using traditional darkroom techniques. Emphasis on concept and creative expression. Introduction to color, pinhole, large format, and non-silver techniques. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 280 Minimum Grade: C- OR T

AR 381 - Intermediate Digital Photography

3 Credit(s)

Continued exploration of digital photography as an art medium. The course will delve further into photographic applications in Adobe Photoshop with emphasis on maximizing image quality using masks and blending modes. Introduction to fine art printing and papers. Emphasis on concept and creative expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 281 Minimum Grade: C- OR T

AR 484 - Advanced Photography I

3 Credit(s)

Continued exploration of photography as an art medium with emphasis on expression and technique. Emphasis on development of a personal style and approach to the medium. Students will work with the instructor to determine techniques appropriate for their individual goals. Digital Techniques will be emphasized during the spring semester and traditional techniques in the fall semester. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 380 Minimum Grade: C- OR T
OR

AR 381 Minimum Grade: C- OR T

AR 485 - Advanced Photography II

3 Credit(s)

Continued exploration of photography as an art medium with emphasis on expression and technique. Emphasis on development of a personal style and approach to the medium. Students will work with the instructor to determine techniques appropriate for their individual goals. Digital Techniques will be emphasized during the spring semester and traditional techniques in the fall semester. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 484 Minimum Grade: C- OR T

AR 497 - BFA Exhibition

6 Credit(s)

A capstone course that involves the creation and exhibition of a cohesive body of creative work.

Prerequisite(s):

BFA Thesis Passed

Co-requisite(s): AR 498

AR XXX: Art Studio Elective (3 Hours)

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own 35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 306 - Illustrator

3 Credit(s)

This course is an advanced design class. Using Adobe Illustrator, students will study design concepts related to computer graphics, illustration, and typography as well as historical traditions in graphic design.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

AR 310 - Photoshop

3 Credit(s)

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

AR 308 - Intermediate Drawing I

3 Credit(s)

Emphasizing human anatomy for the artist; development of personal direction and characteristics. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 209 Minimum Grade: C- OR T

AR 320 - Intermediate Painting I

3 Credit(s)

Intermediate study of painting media with emphasis on perceptual abilities and personal expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- or T

AND

AR 220 Minimum Grade: C- or T

AR 352 - Molding Design and Cold Casting**3 Credit(s)**

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-

OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting**3 Credit(s)**

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-

OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture**3 Credit(s)**

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing**3 Credit(s)**

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing**3 Credit(s)**

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes**3 Credit(s)**

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Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking**3 Credit(s)**

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-

dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

Bachelor of Science / Masters of Business Administration - 5 Year Program

Go to: Business

The 5-year B.S./M.B.A. helps exceptional Adams State students get a head start in their career in business. The program provides a solid foundation for students to launch a successful career in business. The curriculum allows students several options so they can customize their degree to an emphasis in business most relevant to their career goals. Students must work closely with their advisor to determine appropriate courses for these emphases.

The B.S./M.B.A. provides a seamless transition from an undergraduate program to the graduate program, allowing students to cultivate and strengthen their business expertise and maintain the M.B.A. advantage that is sought after in today's highly competitive, global marketplace. The five-year B.S./M.B.A. program is designed for motivated students who are prepared for a streamlined, integrated academic experience that responds to the rapidly changing global environment of today's business world. The B.S./M.B.A. program is ideal for those who want to fast-track their careers while building sustainable skills with innovative and interactive curricula. Students are grounded in applications-based learning that engages new technologies, global perspectives, and ethics-based best practices.

Note: The B.S. portion of the B.S./M.B.A. program is offered either online or face to face. The M.B.A. portion of the program is ONLY offered online.

Admission Requirements for Combined Bachelor's/M.B.A. Degree Program

Undergraduates enrolled in a bachelor's degree program at Adams State University who have completed 75 credit hours of course work toward their degrees and have a cumulative GPA of 3.0 or above may apply for admission to a combined bachelor's/M.B.A. degree program. This program has been established to encourage students with strong scholarly interests to begin their M.B.A. program during their junior year and to provide flexibility in the scheduling and completion of undergraduate requirements along with their graduate course requirements for the M.B.A. degree. The graduate degree will be awarded only after, or concurrently with, the award of Baccalaureate. There are two categories that could qualify a student for acceptance:

1. The student may be enrolled in either a graduate or undergraduate degree program, taking both undergraduate and graduate courses, with two degrees being conferred only when the requirements for both are completed. This student must be monitored and eligibility for certain financial aid programs may be restricted. A "500-Level Course Evaluation" form must be completed and approved by the M.B.A. director and the School of Business chair prior to registration. A student must have completed 90 credit hours prior to starting 500-level courses.
2. The student is an undergraduate taking graduate course(s) as part of their undergraduate degree program. The courses are being used to complete the undergraduate degree. This student is treated for financial aid purposes as a normal undergraduate student and no special financial aid processing is required.

Until students accumulate 120 total credit hours bachelor/M.B.A., they will be classified as undergraduates for financial aid and College Opportunity Fund (COF) purposes (COF applies to courses numbered 100, 200, 300, and 400 only).

Core Courses for both the BS and MBA portions of the Degree

Note:

- Courses required for emphases are not included in the Core Course Requirements
- ASU undergraduate/M.B.A. students may count up to 30 credits from 300-400-500 level (no more than 18 credits from 500 level) Business, Economics or Health Care Administration Courses.

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Master of Business Administration Core Requirements

BUS 500 - Leadership Skills for Managers

3 Credit(s)

This course teaches practical skills required for effective management at all levels of an organization, and is designed to increase a learner's understanding of key concepts and procedural guidelines related to organizational management, human resource, and leadership. The purpose is to be equipped to deal effectively with managerial challenges dealing with people.

BUS 505 - Creating Consumer Value

3 Credit(s)

This course presents learners with a comprehensive approach to creating consumer value. This includes marketing and brand management in for-profit firms as well as identifying and meeting consumer needs in non-profit and governmental organizations. Topics include segmentation and targeting of consumers; the positioning levers of product, price, promotion, and distribution; and brand management.

ECON 505 - Managerial Economics

3 Credit(s)

This course demonstrates how economics theory is applied to national and international managerial decision-making. The course covers topics such as demand analysis, production and cost functions, market structure, managerial understanding of public policy, and international trade finance topics. Pre-req.-Undergraduate Economics course with a grade of C or higher.

BUS 520 - Managerial Accounting

3 Credit(s)

This course provides a review of financial reporting standards and statements and analysis of those financial statements. Managerial accounting principles will be explored as well as budgeting, cost allocation, accumulation, cost behavior, and relevant costs; revenues are approached from a managers' perspective. Prerequisite: undergraduate accounting course with a grade of C or higher.

BUS 525 - Financial Analysis

3 Credit(s)

Students will embark on studying basic financial principles and enhance that with understanding various valuation concepts and methods. Emphasis is also placed on capital budgeting and long term financing as well as working capital management. The course will blend time-tested finance principles and the latest advancements with the practical perspectives of the financial manager. Prerequisite: undergraduate accounting course with a grade of C or higher.

Prerequisite(s):

BUS 520 Minimum Grade: C

BUS 540 - Strategy

3 Credit(s)

In this course, learners examine tools and techniques for competitive analysis, strategic planning, and strategy implementation. Learners gain knowledge of the tools and concepts needed to develop a business strategy including macro environmental scanning, industry and competitive analysis, value chain analysis, SWOT analysis, identification of critical success factors and driving forces, and development of strategic alternatives and recommendations.

Bachelor of Science in Biochemistry

Go to: Chemistry

Specific courses required for this degree:

Completion of the Following Required Courses

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in

biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

CHEM 321 - Organic Chemistry

4 Credit(s)

A study of the relationship between structure and reactivity of carbon-containing compounds.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 321L

CHEM 321L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 321. Laboratory time will be divided among techniques, preparation, and mechanistic studies.

Co-requisite(s): CHEM 321

CHEM 322 - Organic Chemistry

4 Credit(s)

A continuation of CHEM 321.

Prerequisite(s):

CHEM 321 Minimum Grade: C- OR T

Co-requisite(s): CHEM 322L

CHEM 322L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-322. Laboratory time will be divided among mechanistic studies, preparation, introductory qualitative analysis, and independent project work.

Co-requisite(s): CHEM-322

CHEM 331 - Analytical Chemistry

3 Credit(s)

The theory and application of classical and instrumental quantitative analysis with additional emphasis on the fate and analysis of chemicals in the environment.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T
AND

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): CHEM 331L

CHEM 331L - Analytical Chemistry Lab

2 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-331

Co-requisite(s): CHEM-331

CHEM 332 - Analytical Chemistry

3 Credit(s)

A continuation of CHEM 331 with additional coverage of chemical equilibria and electrochemistry.

Prerequisite(s):

CHEM 331 Minimum Grade: D OR T

Co-requisite(s): CHEM 332L

CHEM 332L - Analytical Chemistry Lab

2 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 332.

Co-requisite(s): CHEM 332

CHEM 401 - Biochemistry

3 Credit(s)

A study of structural biochemistry. Course begins with a review of water, the lipophilic environment, noncovalent

bonding, and bioenergetics. Topics include amino acids, peptides, proteins, nucleic acids, carbohydrates, and lipids. Enzymes are discussed with emphasis on mechanism and kinetics.

Prerequisite(s):

CHEM 322 Minimum Grade: C- OR T

Co-requisite(s): CHEM 401L

CHEM 401L - Biochemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-401. Laboratory time will be spent learning protein purification techniques and doing independent project work.

Co-requisite(s): CHEM-401

CHEM 402 - Biochemistry II

3 Credit(s)

A study of biochemical metabolism. Topics include catabolism, anabolism, and metabolic control. Three hours of lecture per week.

Prerequisite(s):

CHEM 401 Minimum Grade: C- OR T

CHEM 431 - Physical Chemistry Lecture/Thermodynamics

3 Credit(s)

Thermodynamics as applied to chemistry and physics. Specific topics include the laws of thermodynamics, thermochemistry, reaction and phase equilibrium, solutions, and electrochemistry. An introduction to chemical kinetics is included.

Prerequisite(s):

CHEM-132 Minimum Grade: C- OR T
AND

MATH-121 Minimum Grade: C- OR T

AND

PHYS-225 Minimum Grade: C- OR T

AND

PHYS-226 Minimum Grade: C- OR T

OR

PHYS-230 Minimum Grade: D OR T

AND

PHYS-231 Minimum Grade: D OR T

AND

PHYS-232 Minimum Grade: D OR T

AND

PHYS-233 Minimum Grade: D OR T

Co-requisite(s): CHEM 433

CHEM 433 - Physical Chemistry Laboratory

2 Credit(s)

The principles of physical chemistry applied in the laboratory.

Prerequisite(s):

CHEM 431 Minimum Grade: D OR T

Co-requisite(s): CHEM 431

CHEM 461 - Inorganic Chemistry

3 Credit(s)

Theoretical aspects of inorganic chemistry based upon periodic relationships, symmetry, structure bonding, and reactivities. Offered fall semesters of odd-numbered years.

Prerequisite(s):

CHEM-321 Minimum Grade: C- OR T

AND

CHEM-322 Minimum Grade: C- OR T

OR

CHEM-331 Minimum Grade: C- OR T

AND

CHEM-332 Minimum Grade: C- OR T

Co-requisite(s): CHEM-461L

CHEM 461L - Inorganic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-461. Practices of inorganic chemistry in the laboratory including synthesis and characterization of compounds.

Co-requisite(s): CHEM-461

OR

BIOL 476 - Molecular Biology

5 Credit(s)

An introduction to the study of nucleic acids, genomes and molecular mechanisms with emphasis on genome organization, gene expression, and the techniques used in the study of molecular biology. Laboratory exercises will include standard methodologies such as restriction mapping, cloning, hybridization, DNA libraries, and PCR. Course includes three hours of lecture and four hours of laboratory per week. Senior standing is recommended.

Prerequisite(s):

BIOL 448 Minimum Grade: C- OR T

OR

CHEM 401 Minimum Grade: C- OR T

CHEM 471 - Chemistry Seminar

1 Credit(s)

Capstone course intended for senior chemistry majors consisting of seminars presented by guest speakers, staff, and students; an assessment exam for seniors; and job placement information. Prerequisite: Completion of sufficient degree requirements to be within three semesters of graduating with a chemistry major.

CHEM 472 - Chemistry Seminar Continuation

1 Credit(s)

A continuation of CHEM 471.

Prerequisite(s):

CHEM 471 Minimum Grade: C- OR T

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 226 - College Physics II

5 Credit(s)

The second course of a two-semester lecture-laboratory sequence introducing the fundamental principles of physics. In the second semester, students will be introduced to the areas of electricity, electric circuits, optics, and topics in modern physics. Conceptual understanding as well as problem-solving techniques will be emphasized in the lecture. The laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture.

Prerequisite(s):

PHYS 225 Minimum Grade: C- OR T
OR

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

BIOL 321 - Genetics

3 Credit(s)

A study of Mendelian and molecular genetics of eukaryotes and prokaryotes. Discussions include basic Mendelian principles, meiosis/mitosis, linkage, gene expression, and molecular techniques. Course includes 3 hours of lecture and 1 hour of peer learning activities per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- **OR** T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

OR

CHEM-132 Minimum Grade: C- OR T

AND

CHEM-132L Minimum Grade: C- OR T

BIOL 323 - Cellular Biology

3 Credit(s)

The study of higher plant and animal cells and tissues at the biochemical level including: organelle structure, function, and metabolic role; cell growth, differentiation and specialization; and a survey of instrumentation and methodologies for investigating life processes at the biochemical level. Course includes three hours of lecture per week. Concurrent registration in BIOL 321 and BIOL 325 is recommended.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T

OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

BIOL 325 - Cellular Biology/Genetics Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with BIOL 321 and BIOL 323. Laboratory exercises in this course are designed to demonstrate, complement, and extend concepts considered in BIOL 321 and BIOL 323. Students will engage in exercises involving a variety of techniques in which data pertinent to both disciplines will be gathered and analyzed. Course includes 3 hours of laboratory per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T

OR

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

AND

CHEM 111L Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 131L Minimum Grade: C- OR T

Co-requisite(s): BIOL 321 BIOL 323

Bachelor of Science in Biology, Cellular and Molecular Biology Emphasis

Go to: Biology

Core Requirements

Completion of the following required courses:

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430
AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

BIOL 321 - Genetics

3 Credit(s)

A study of Mendelian and molecular genetics of eukaryotes and prokaryotes. Discussions include basic Mendelian principles, meiosis/mitosis, linkage, gene expression, and molecular techniques. Course includes 3 hours of lecture and 1 hour of peer learning activities per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

OR

CHEM-132 Minimum Grade: C- OR T

AND

CHEM-132L Minimum Grade: C- OR T

BIOL 323 - Cellular Biology

3 Credit(s)

The study of higher plant and animal cells and tissues at the biochemical level including: organelle structure, function, and metabolic role; cell growth, differentiation and specialization; and a survey of instrumentation and methodologies for investigating life processes at the biochemical level. Course includes three hours of lecture per week. Concurrent registration in BIOL 321 and BIOL 325 is recommended.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

BIOL 325 - Cellular Biology/Genetics Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with BIOL 321 and BIOL 323. Laboratory exercises in this course are designed to demonstrate, complement, and extend concepts considered in BIOL 321 and BIOL 323. Students will engage in exercises involving a variety of techniques in which data pertinent to both disciplines will be gathered and analyzed. Course includes 3 hours of laboratory per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T

OR

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

AND

CHEM 111L Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 131L Minimum Grade: C- OR T

Co-requisite(s): BIOL 321 BIOL 323

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

BIOL 332 - Evolution

3 Credit(s)

A study of the history and development of evolutionary theory. Consideration is given to evidence for and mechanisms of evolution from anatomical, developmental, geological, mathematical, and molecular perspectives. Credit or concurrent registration in BIOL 330 is recommended. This course includes 3 hours of lecture per week.

Prerequisite(s):

BIOL 209 Minimum Grade: C- OR T

AND

BIOL 210 Minimum Grade: C- OR T

BIOL 448 - Microbiology

4 Credit(s)

The study of bacteria, fungi, protozoans, and viruses with emphasis on their morphology, physiology, and medical and ecological interactions with human populations. Laboratory exercises are designed to provide experience in handling microorganisms, identification of bacteria, isolation of bacteriophages, and other basic principles of microbiology.

Course includes 3 hours of lecture and 3 hours of laboratory per week. Chemistry 321/321L and CHEM-322/322L are recommended.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 476 - Molecular Biology

5 Credit(s)

An introduction to the study of nucleic acids, genomes and molecular mechanisms with emphasis on genome organization, gene expression, and the techniques used in the study of molecular biology. Laboratory exercises will include standard methodologies such as restriction mapping, cloning, hybridization, DNA libraries, and PCR. Course includes three hours of lecture and four hours of laboratory per week. Senior standing is recommended.

Prerequisite(s):

BIOL 448 Minimum Grade: C- OR T
OR

CHEM 401 Minimum Grade: C- OR T

BIOL 477 - Genomics and Bioinformatics

4 Credit(s)

This course is designed to provide students with an in-depth understanding of comparative and functional genomics and practice using genomics and bioinformatics tools. Topics discussed include structure and anatomy of DNA elements, sequencing and other methods used in decoding DNA, genes, and entire genomes, gene expression profiling, gene annotation, homology, clusters of ortholog genes, protein structure function, high throughput functional assays, and experimental perturbation of genomes for medical purposes. Examples presented in the course illustrate the role of functional genomics in drug design, gene discovery, and in designing individual therapies for a variety of diseases and disorders. Laboratory exercises will give students experience in handling and interpreting biological data using various computational methods.

Prerequisite(s):

CHEM 401 Minimum Grade: C- OR T
AND

BIOL 476 Minimum Grade: C- OR T

BIOL 493 - Thesis I

1 Credit(s)

First in a series of two capstone courses for biology majors designed to review and synthesize their biological background. The emphasis is on writing an independent research paper, or formal literature review of a selected topic in biology. Emphasis is on writing as a process and effective peer review. Course includes 2 hours of lecture per week. A minimum of six credit hours of 400- level biology coursework with grades C or better, or permission of the biology department is required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T
AND

BIOL 325 Minimum Grade: C- OR T
AND

BIOL 330 Minimum Grade: C- OR T
AND

BIOL 332 Minimum Grade: C- OR T

BIOL 494 - Thesis II

1 Credit(s)

Second in a series of two capstone courses for biology designed to review and synthesize their biological background. The emphasis is on developing oral presentation skills. Students will prepare and deliver several short oral presentations as well as one formal seminar on a biological topic. Course includes two hours of lecture per week.

Prerequisite(s):

BIOL 493 Minimum Grade: C- OR T

Plus a Minimum of Seven Credits from the Following

BIOL 407 - Comparative Animal Physiology

4 Credit(s)

A lecture and laboratory course in which physiological principles common to all major animal phyla are discussed. Consideration of function ranges from biochemical to organismal levels and the comparative method is emphasized in the examination of physiological adaptations required to live in a variety of environments. Course includes 3 hours of lecture and 3 hours of laboratory per week and is offered during fall term of even-numbered years. Biochemistry (CHEM-401 and 402) and senior standing are recommended.

Prerequisite(s):

BIOL-321 Minimum Grade: C- OR T

AND

BIOL-323 Minimum Grade: C- OR T

AND

BIOL-325 Minimum Grade: C- OR T

AND

BIOL-330 Minimum Grade: C- OR T

AND

BIOL-332 Minimum Grade: C- OR T

AND

CHEM-321 Minimum Grade: C- OR T

AND

CHEM-321L Minimum Grade: C- OR T

AND

CHEM-322 Minimum Grade: C- OR T

AND

CHEM-322L Minimum Grade: C- OR T

BIOL 408 - Developmental Biology

4 Credit(s)

A lecture and laboratory exploration of the principles of cellular differentiation, morphogenesis, and development with emphasis on underlying genetic mechanisms. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 411 - Comparative Anatomy

4 Credit(s)

An integrated lecture/laboratory investigation of the anatomy and functional morphology of the major groups of chordates and vertebrates with emphasis on the comparative method, anatomical changes through evolutionary history, and inferential reconstruction of phyletic evolutionary descent. Course includes 3 hours of lecture and 3 hours of laboratory per week and is offered during fall term of odd-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 450 - Immunology

3 Credit(s)

Introduction to the cellular and molecular participants in the immune response. Discussion of the relationship between immune mechanisms and medical problems such as allergy, AIDS, malignancy, infection, and organ transplantation. Course includes 3 hours of lecture per week. Course is offered during spring term of even numbered years.

Prerequisite(s):

BIOL 448 Minimum Grade: C- OR T

BIOL 451 - Endocrinology

3 Credit(s)

The study of the production, regulation, and function of classical hormones and paracrine regulatory molecules. Emphasis will be placed on human endocrinology, but the material will also include discussions of the evolution of hormone families and comparisons between species. Class activities will include histological study of endocrine tissue, videos of hormonal action, analysis of experiments in journal articles and discussions of medical case histories. Course includes 3 hours of lecture per week and is offered during the fall term of even-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

Completion of Required Support Courses

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

CHEM 321 - Organic Chemistry

4 Credit(s)

A study of the relationship between structure and reactivity of carbon-containing compounds.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 321L

CHEM 321L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 321. Laboratory time will be divided among techniques, preparation, and mechanistic studies.

Co-requisite(s): CHEM 321

CHEM 322 - Organic Chemistry

4 Credit(s)

A continuation of CHEM 321.

Prerequisite(s):

CHEM 321 Minimum Grade: C- OR T

Co-requisite(s): CHEM 322L

CHEM 322L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-322. Laboratory time will be divided among mechanistic studies, preparation, introductory qualitative analysis, and independent project work.

Co-requisite(s): CHEM-322

CHEM 401 - Biochemistry

3 Credit(s)

A study of structural biochemistry. Course begins with a review of water, the lipophilic environment, noncovalent bonding, and bioenergetics. Topics include amino acids, peptides, proteins, nucleic acids, carbohydrates, and lipids. Enzymes are discussed with emphasis on mechanism and kinetics.

Prerequisite(s):

CHEM 322 Minimum Grade: C- OR T

Co-requisite(s): CHEM 401L

CHEM 401L - Biochemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-401. Laboratory time will be spent learning protein purification techniques and doing independent project work.

Co-requisite(s): CHEM-401

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 226 - College Physics II

5 Credit(s)

The second course of a two-semester lecture-laboratory sequence introducing the fundamental principles of physics. In the second semester, students will be introduced to the areas of electricity, electric circuits, optics, and topics in modern physics. Conceptual understanding as well as problem-solving techniques will be emphasized in the lecture. The laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture.

Prerequisite(s):

PHYS 225 Minimum Grade: C- OR T

Bachelor of Science in Biology, Integrative Biology Emphasis

Go to: [Biology](#)

Core Requirements

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

BIOL 321 - Genetics

3 Credit(s)

A study of Mendelian and molecular genetics of eukaryotes and prokaryotes. Discussions include basic Mendelian principles, meiosis/mitosis, linkage, gene expression, and molecular techniques. Course includes 3 hours of lecture and 1 hour of peer learning activities per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- **OR** T
OR

BIOL-210 Minimum Grade: C- **OR** T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

OR

CHEM-132 Minimum Grade: C- OR T

AND

CHEM-132L Minimum Grade: C- OR T

BIOL 323 - Cellular Biology

3 Credit(s)

The study of higher plant and animal cells and tissues at the biochemical level including: organelle structure, function, and metabolic role; cell growth, differentiation and specialization; and a survey of instrumentation and methodologies for investigating life processes at the biochemical level. Course includes three hours of lecture per week. Concurrent registration in BIOL 321 and BIOL 325 is recommended.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T

OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

BIOL 325 - Cellular Biology/Genetics Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with BIOL 321 and BIOL 323. Laboratory exercises in this course are designed to demonstrate, complement, and extend concepts considered in BIOL 321 and BIOL 323. Students will engage in exercises involving a variety of techniques in which data pertinent to both disciplines will be gathered and analyzed. Course includes 3 hours of laboratory per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T

OR

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

AND

CHEM 111L Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 131L Minimum Grade: C- OR T

Co-requisite(s): BIOL 321 BIOL 323

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T
AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

BIOL 332 - Evolution

3 Credit(s)

A study of the history and development of evolutionary theory. Consideration is given to evidence for and mechanisms of evolution from anatomical, developmental, geological, mathematical, and molecular perspectives. Credit or concurrent registration in BIOL 330 is recommended. This course includes 3 hours of lecture per week.

Prerequisite(s):

BIOL 209 Minimum Grade: C- OR T
AND

BIOL 210 Minimum Grade: C- OR T

BIOL 425 - Statistics for Biological Sciences

3 Credit(s)

This course provides an introduction to the statistical methods used in the biological sciences. Topics covered include descriptive statistics, probability distributions, hypothesis testing, regression analysis, and analysis of variance. Students will learn how to apply these methods to real-world biological data using the statistical software program R.

Prerequisite(s):

Completion of all Intermediate Block Biology courses (BIOL 321, BIOL 323, BIOL 325, BIOL 330, BIOL 332) with a minimum grade of C- or T.

AND

Completion of MATH 205 with a minimum grade of C- or T.

Co-requisite(s): MATH 205 with instructor permission.

BIOL 493 - Thesis I

1 Credit(s)

First in a series of two capstone courses for biology majors designed to review and synthesize their biological background. The emphasis is on writing an independent research paper, or formal literature review of a selected topic in biology. Emphasis is on writing as a process and effective peer review. Course includes 2 hours of lecture per week. A minimum of six credit hours of 400- level biology coursework with grades C or better, or permission of the biology department is required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T
AND

BIOL 325 Minimum Grade: C- OR T
AND

BIOL 330 Minimum Grade: C- OR T
AND

BIOL 332 Minimum Grade: C- OR T

BIOL 494 - Thesis II

1 Credit(s)

Second in a series of two capstone courses for biology designed to review and synthesize their biological background. The emphasis is on developing oral presentation skills. Students will prepare and deliver several short oral presentations as well as one formal seminar on a biological topic. Course includes two hours of lecture per week.

Prerequisite(s):

BIOL 493 Minimum Grade: C- OR T

Plus 7 Courses Including a Minimum of 2 from each of the Following Sections (Sections A and B)

Section A.

BIOL 404 - Physiological Zoology

3 Credit(s)

Consideration of structural, functional, and behavioral aspects of physiological mechanisms within an ecological context. Adaptations of animals in response to common, changing, and/or extreme environmental stresses will be emphasized at both proximate and ultimate levels of inquiry. This course includes 3 hours of lecture per week and is offered during spring term of odd-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 417 - Vascular Plant Systematics

4 Credit(s)

A study of vascular plants (tracheophytes), including phylogeny, taxonomy, molecular systematics, reproduction, ecological relationships, identification, collection, and preservation. Course includes 3 hours of lecture and 3 hours of laboratory per week

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 420 - Mycology

4 Credit(s)

A study of the biology of fungi with emphasis on their identification, classification, morphology, development, ecology, and economic significance. Course includes three hours of lecture and three hours of laboratory per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 423 - Plant Physiology

4 Credit(s)

A study of the mechanisms of plant function throughout development from seeds through reproduction. This course includes consideration of metabolism (photosynthesis, respiration, mineral nutrition), water relations, gas exchange, and developmental growth in response to hormones. An integrated laboratory component requires an independently researched project. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 430 - Plant Ecology

4 Credit(s)

A study of the physiological mechanisms underlying plant responses to abiotic constraints. Topics will include the function of plants and plant communities in relation to soils, climate, other plants, animals, and human activity. Course includes 3 hours of lecture and 3 hours of laboratory/field exercises per week. BIOL 417 is recommended.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 440 - Invertebrate Zoology

4 Credit(s)

A survey of the major groups of invertebrate animals from the Protozoa through Chordata with emphasis on anatomy, ecology, evolution, physiology, and taxonomy. Relationships will be demonstrated through study of selected invertebrate types including marine, freshwater, and terrestrial species. Course includes 3 hours of lecture and 3 hours of laboratory per week and is offered during spring term of even-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 460 - Ornithology

3 Credit(s)

An integrated lecture and laboratory course covering the major taxonomic groups of birds, their ecology, evolutionary fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Lecture topics are supplemented with laboratory and field identification. Course includes three hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 461 - Entomology

3 Credit(s)

Biology of insects with emphasis on anatomy, physiology, natural history, evolution, life cycles, and identification of major groups. This course included two hours of lecture and two hours of lab per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 463 - Ichthyology

3 Credit(s)

An integrated lecture and laboratory course covering the major economic groups of fishes, their ecology, evolutionary relationships, fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Course includes three hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 464 - Mammalogy

3 Credit(s)

An integrated lecture and laboratory course covering the major taxonomic groups of mammals, their ecology, evolutionary relationships, fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Course includes 3 hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 471 - Herpetology

3 Credit(s)

An integrated lecture and laboratory course covering the major taxonomic groups of amphibians and reptiles, their ecology, evolutionary relationships, fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Course includes three hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

Section B.

BIOL 407 - Comparative Animal Physiology

4 Credit(s)

A lecture and laboratory course in which physiological principles common to all major animal phyla are discussed. Consideration of function ranges from biochemical to organismal levels and the comparative method is emphasized in the examination of physiological adaptations required to live in a variety of environments. Course includes 3 hours of lecture and 3 hours of laboratory per week and is offered during fall term of even-numbered years. Biochemistry (CHEM-401 and 402) and senior standing are recommended.

Prerequisite(s):

BIOL-321 Minimum Grade: C- OR T
AND

BIOL-323 Minimum Grade: C- OR T

AND

BIOL-325 Minimum Grade: C- OR T

AND

BIOL-330 Minimum Grade: C- OR T

AND

BIOL-332 Minimum Grade: C- OR T

AND

CHEM-321 Minimum Grade: C- OR T

AND

CHEM-321L Minimum Grade: C- OR T

AND

CHEM-322 Minimum Grade: C- OR T

AND

CHEM-322L Minimum Grade: C- OR T

BIOL 408 - Developmental Biology

4 Credit(s)

A lecture and laboratory exploration of the principles of cellular differentiation, morphogenesis, and development with

emphasis on underlying genetic mechanisms. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 411 - Comparative Anatomy

4 Credit(s)

An integrated lecture/laboratory investigation of the anatomy and functional morphology of the major groups of chordates and vertebrates with emphasis on the comparative method, anatomical changes through evolutionary history, and inferential reconstruction of phyletic evolutionary descent. Course includes 3 hours of lecture and 3 hours of laboratory per week and is offered during fall term of odd-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 448 - Microbiology

4 Credit(s)

The study of bacteria, fungi, protozoans, and viruses with emphasis on their morphology, physiology, and medical and ecological interactions with human populations. Laboratory exercises are designed to provide experience in handling microorganisms, identification of bacteria, isolation of bacteriophages, and other basic principles of microbiology. Course includes 3 hours of lecture and 3 hours of laboratory per week. Chemistry 321/321L and CHEM-322/322L are

recommended.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 450 - Immunology

3 Credit(s)

Introduction to the cellular and molecular participants in the immune response. Discussion of the relationship between immune mechanisms and medical problems such as allergy, AIDS, malignancy, infection, and organ transplantation. Course includes 3 hours of lecture per week. Course is offered during spring term of even numbered years.

Prerequisite(s):

BIOL 448 Minimum Grade: C- OR T

BIOL 451 - Endocrinology

3 Credit(s)

The study of the production, regulation, and function of classical hormones and paracrine regulatory molecules. Emphasis will be placed on human endocrinology, but the material will also include discussions of the evolution of hormone families and comparisons between species. Class activities will include histological study of endocrine tissue, videos of hormonal action, analysis of experiments in journal articles and discussions of medical case histories. Course includes 3 hours of lecture per week and is offered during the fall term of even-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 466 - Environmental Toxicology

3.0 Credit(s)

This course provides an overview of the interdisciplinary field of environmental toxicology, including introductions to environmental chemistry, biological mechanisms of toxicity, regulatory structures for managing toxic exposures, and social dimensions of pollution. Impacts to both human and wildlife health will be discussed. Many of the concepts covered have direct relevance to pharmacology, medicine, and wildlife management. The format of the course is a mixture of lectures and discussion activities. Examples from the primary literature are used for discussion. The course culminates with an independent research project on an environmental toxicology topic of the student's choosing.

Prerequisite(s):

Completion of all Intermediate Block Biology courses (BIOL 321, BIOL 323, BIOL 325, BIOL 330, BIOL 332) with a minimum grade of C- or T.

BIOL 476 - Molecular Biology

5 Credit(s)

An introduction to the study of nucleic acids, genomes and molecular mechanisms with emphasis on genome organization, gene expression, and the techniques used in the study of molecular biology. Laboratory exercises will include standard methodologies such as restriction mapping, cloning, hybridization, DNA libraries, and PCR. Course includes three hours of lecture and four hours of laboratory per week. Senior standing is recommended.

Prerequisite(s):

BIOL 448 Minimum Grade: C- OR T
OR

CHEM 401 Minimum Grade: C- OR T

BIOL 477 - Genomics and Bioinformatics

4 Credit(s)

This course is designed to provide students with an in-depth understanding of comparative and functional genomics and practice using genomics and bioinformatics tools. Topics discussed include structure and anatomy of DNA elements, sequencing and other methods used in decoding DNA, genes, and entire genomes, gene expression profiling, gene annotation, homology, clusters of ortholog genes, protein structure function, high throughput functional assays, and experimental perturbation of genomes for medical purposes. Examples presented in the course illustrate the role of functional genomics in drug design, gene discovery, and in designing individual therapies for a variety of diseases and disorders. Laboratory exercises will give students experience in handling and interpreting biological data using various computational methods.

Prerequisite(s):

CHEM 401 Minimum Grade: C- OR T
AND

BIOL 476 Minimum Grade: C- OR T

CHEM 401 - Biochemistry

3 Credit(s)

A study of structural biochemistry. Course begins with a review of water, the lipophilic environment, noncovalent bonding, and bioenergetics. Topics include amino acids, peptides, proteins, nucleic acids, carbohydrates, and lipids. Enzymes are discussed with emphasis on mechanism and kinetics.

Prerequisite(s):

CHEM 322 Minimum Grade: C- OR T

Co-requisite(s): CHEM 401L

Completion of required support courses

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

CHEM 321 - Organic Chemistry

4 Credit(s)

A study of the relationship between structure and reactivity of carbon-containing compounds.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 321L

CHEM 321L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 321. Laboratory time will be divided among techniques, preparation, and mechanistic studies.

Co-requisite(s): CHEM 321

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

Bachelor of Science in Biology, Wildlife Emphasis

Go to: [Biology](#)

Core Requirements

Completion of the following required courses:

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score:

18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- OR BIOL-209 Minimum Grade: T OR BIOL-209 Minimum Grade: C- AND (CHEM-131 Minimum Grade: C- OR CHEM-131 Minimum Grade: T) OR (CHEM-111 Minimum Grade: C- OR CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

BIOL 321 - Genetics

3 Credit(s)

A study of Mendelian and molecular genetics of eukaryotes and prokaryotes. Discussions include basic Mendelian principles, meiosis/mitosis, linkage, gene expression, and molecular techniques. Course includes 3 hours of lecture and 1 hour of peer learning activities per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

OR

CHEM-132 Minimum Grade: C- OR T

AND

CHEM-132L Minimum Grade: C- OR T

BIOL 323 - Cellular Biology

3 Credit(s)

The study of higher plant and animal cells and tissues at the biochemical level including: organelle structure, function, and metabolic role; cell growth, differentiation and specialization; and a survey of instrumentation and methodologies for investigating life processes at the biochemical level. Course includes three hours of lecture per week. Concurrent registration in BIOL 321 and BIOL 325 is recommended.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

BIOL 325 - Cellular Biology/Genetics Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with BIOL 321 and BIOL 323. Laboratory exercises in this course are designed to demonstrate, complement, and extend concepts considered in BIOL 321 and BIOL 323. Students will engage in exercises involving a variety of techniques in which data pertinent to both disciplines will be gathered and analyzed. Course includes 3 hours of laboratory per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

AND

CHEM 111L Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 131L Minimum Grade: C- OR T

Co-requisite(s): BIOL 321 BIOL 323

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T
AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

BIOL 332 - Evolution

3 Credit(s)

A study of the history and development of evolutionary theory. Consideration is given to evidence for and mechanisms of evolution from anatomical, developmental, geological, mathematical, and molecular perspectives. Credit or concurrent registration in BIOL 330 is recommended. This course includes 3 hours of lecture per week.

Prerequisite(s):

BIOL 209 Minimum Grade: C- OR T
AND

BIOL 210 Minimum Grade: C- OR T

BIOL 493 - Thesis I

1 Credit(s)

First in a series of two capstone courses for biology majors designed to review and synthesize their biological background. The emphasis is on writing an independent research paper, or formal literature review of a selected topic in biology. Emphasis is on writing as a process and effective peer review. Course includes 2 hours of lecture per week. A minimum of six credit hours of 400- level biology coursework with grades C or better, or permission of the biology department is required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 494 - Thesis II

1 Credit(s)

Second in a series of two capstone courses for biology designed to review and synthesize their biological background. The emphasis is on developing oral presentation skills. Students will prepare and deliver several short oral presentations as well as one formal seminar on a biological topic. Course includes two hours of lecture per week.

Prerequisite(s):

BIOL 493 Minimum Grade: C- OR T

Plus a Minimum of 6 Credits from the Following

BIOL 467 - Wildlife Management

3 Credit(s)

Study of the ecological foundation, historical development, techniques, and current perspectives and challenges in wildlife management. Emphasis will be on the application of scientific management of game and non-game animals, their habitats, and managing human use of wildlife. Course includes three hours of lecture per week and is offered during fall term of even-numbered years. MATH 205 is recommended.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

OR

BIOL 330 Minimum Grade: C- OR T

AND

GSCI 212 Minimum Grade: C- OR T OR

BIOL 468 - Vegetation/Habitat Management

3 Credit(s)

A study of the composition, structure and productivity of vegetation with emphasis on ecological applications in creating and managing wildlife habitat.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

OR

BIOL 330 Minimum Grade: C- OR T

AND

GEOG 212 Minimum Grade: C- OR T

BIOL 469 - Fisheries Management

3 Credit(s)

A study of the ecological foundation, historical development, techniques, and current perspectives and challenges in inland fisheries management. Emphasis will be on the application of scientific management of fishes, their habitats, and managing human use of inland fisheries. Fisheries Management does not include a separate laboratory section, but will include various field trips to give students the opportunity to observe and apply management techniques discussed in class.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

GSCI 212 - Natural Resource Management on Public Lands

3 Credit(s)

This course will examine public lands management from both a theoretical and descriptive perspective. The major political forces affecting public lands, and the specific details of energy policy, forests, rangelands, national parks, and wildlife on public lands are discussed.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

OR

BIOL 330 Minimum Grade: C-

Plus a Minimum of 2 Courses from Each of the Following Sections (Sections A, B & C)

A.

BIOL 460 - Ornithology

3 Credit(s)

An integrated lecture and laboratory course covering the major taxonomic groups of birds, their ecology, evolutionary fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Lecture topics are supplemented with laboratory and field identification. Course includes three hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 461 - Entomology

3 Credit(s)

Biology of insects with emphasis on anatomy, physiology, natural history, evolution, life cycles, and identification of major groups. This course included two hours of lecture and two hours of lab per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 463 - Ichthyology

3 Credit(s)

An integrated lecture and laboratory course covering the major economic groups of fishes, their ecology, evolutionary relationships, fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Course includes three hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 464 - Mammalogy

3 Credit(s)

An integrated lecture and laboratory course covering the major taxonomic groups of mammals, their ecology, evolutionary relationships, fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Course includes 3 hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T

AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 471 - Herpetology

3 Credit(s)

An integrated lecture and laboratory course covering the major taxonomic groups of amphibians and reptiles, their ecology, evolutionary relationships, fossil history, identification, and unique aspects of their anatomy, behavior and physiology. Course includes three hours of lecture per week. Additional laboratory/field exercises are required.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T
AND

BIOL 325 Minimum Grade: C- OR T
AND

BIOL 330 Minimum Grade: C- OR T
AND

BIOL 332 Minimum Grade: C- OR T

B.

BIOL 314 - Conservation Biology

3 Credit(s)

Conservation biology is the study of how to preserve the world's biological and genetic diversity while maintaining functional ecosystems. The course will explore these issues using an integrated approach with emphasis on identifying ways that wildlife and humans can sustainably coexist.

Prerequisite(s):

BIOL 330 Minimum Grade: C- OR T
OR

GSCI 307 Minimum Grade: C- OR T

BIOL 404 - Physiological Zoology

3 Credit(s)

Consideration of structural, functional, and behavioral aspects of physiological mechanisms within an ecological context. Adaptations of animals in response to common, changing, and/or extreme environmental stresses will be emphasized at both proximate and ultimate levels of inquiry. This course includes 3 hours of lecture per week and is offered during spring term of odd-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 411 - Comparative Anatomy

4 Credit(s)

An integrated lecture/laboratory investigation of the anatomy and functional morphology of the major groups of chordates and vertebrates with emphasis on the comparative method, anatomical changes through evolutionary history, and inferential reconstruction of phyletic evolutionary descent. Course includes 3 hours of lecture and 3 hours of laboratory per week and is offered during fall term of odd-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 423 - Plant Physiology

4 Credit(s)

A study of the mechanisms of plant function throughout development from seeds through reproduction. This course includes consideration of metabolism (photosynthesis, respiration, mineral nutrition), water relations, gas exchange, and developmental growth in response to hormones. An integrated laboratory component requires an independently researched project. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 440 - Invertebrate Zoology

4 Credit(s)

A survey of the major groups of invertebrate animals from the Protozoa through Chordata with emphasis on anatomy, ecology, evolution, physiology, and taxonomy. Relationships will be demonstrated through study of selected invertebrate types including marine, freshwater, and terrestrial species. Course includes 3 hours of lecture and 3 hours of laboratory per week and is offered during spring term of even-numbered years.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

C.

Nine hours of plant-related courses are required for positions with the Federal Government

BIOL 417 - Vascular Plant Systematics

4 Credit(s)

A study of vascular plants (tracheophytes), including phylogeny, taxonomy, molecular systematics, reproduction,

ecological relationships, identification, collection, and preservation. Course includes 3 hours of lecture and 3 hours of laboratory per week

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 420 - Mycology

4 Credit(s)

A study of the biology of fungi with emphasis on their identification, classification, morphology, development, ecology, and economic significance. Course includes three hours of lecture and three hours of laboratory per week.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

BIOL 430 - Plant Ecology

4 Credit(s)

A study of the physiological mechanisms underlying plant responses to abiotic constraints. Topics will include the function of plants and plant communities in relation to soils, climate, other plants, animals, and human activity. Course includes 3 hours of lecture and 3 hours of laboratory/field exercises per week. BIOL 417 is recommended.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T
AND

BIOL 325 Minimum Grade: C- OR T
AND

BIOL 330 Minimum Grade: C- OR T
AND

BIOL 332 Minimum Grade: C- OR T

Required Support Courses

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460
OR

MATH 97 Minimum Grade: S-A or S-B
OR

MATH 97 Minimum Grade: S-C or S
OR

MATH 99 Minimum Grade: S or S-A
OR

MATH 99 Minimum Grade: S-B or S-C or T
OR

MATH 104 Minimum Grade: C- or T
OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 112 - Introduction to Organic/Biological Chemistry

4 Credit(s)

A study of the fundamental concepts of organic chemistry and biochemistry. Will not satisfy requirements for a chemistry major, minor or pre-professional studies (pre-med etc.) The course is satisfactory for biology majors who take only one year of chemistry, and for HPPE advanced track.

Prerequisite(s):

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 112L

CHEM 112L - Introduction to Organic/Biological Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 112.

Co-requisite(s): CHEM 112

GSCI 201 - Introduction to Cartography and GIS

3 Credit(s)

This course will introduce students to the core concepts of Geographic Information Systems (GIS) and the importance and relevance of GIS in today's world. Students will learn what GIS is, what it is used for, and how to perform basic and core tasks involving GIS analysis. An objective is to help students develop the ability to think critically about cartographic processes and representations as well as develop their skills in creating maps. Students are expected to have basic computer proficiency prior to enrolling in this course.

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T

OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

Bachelor of Science in Business Administration, Accounting Emphasis

Go to: Business

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Accounting Emphasis

BUS 305 - Intermediate Accounting I

4 Credit(s)

The first of a two-course sequence of Intermediate Accounting designed to develop a framework for the role financial accounting plays in the world of business. A study of the conceptual basis of accounting will be conducted, creating a more in-depth understanding of the preparation and interpretation of financial statements and related information. This course will focus on the study of modern-day accounting theory and application of generally accepted accounting principles to various topics and financial statement elements. Students will be introduced to the U.S. Accounting Standards Codification and basic research tools.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 306 - Intermediate Accounting II

4 Credit(s)

The second of a two-course sequence of Intermediate Accounting designed to develop a framework for the role financial accounting plays in the world of business. A study of the conceptual basis of accounting will be conducted,

creating a more in-depth understanding of the preparation and interpretation of financial statements and related information. This course will focus on the study of modern-day accounting theory and application of generally accepted accounting principles to various topics and financial statement elements. Students will continue their use of the U.S. Accounting Standards Codification as a research tools.

Prerequisite(s):

BUS 305 Minimum Grade: C- OR T

BUS 307 - Managerial Cost Accounting I

3 Credit(s)

Principles and methods of recording and interpreting cost data. Major emphasis on developing accounting information for planning, control, and decision making.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 355 - Individual Income Taxation

4 Credit(s)

This course involves the study of federal income tax on individual and property transactions. Objectives of taxation are given major emphasis. The Internal Revenue Code is discussed in addition to textbook material in order to acquaint the student with the ultimate source of tax law. Income tax return problems and tax cases may be assigned to provide practical application of the tax law.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 360 - Government and Institution Accounting

3 Credit(s)

Study of accounting procedures related to governmental units and nonprofit institutions.

Prerequisite(s):

BUS 305 Minimum Grade: C- OR T

BUS 405 - Advanced Accounting

4 Credit(s)

BUS-405 involves preparation and study of the need for consolidated financial statements. Additionally, it examines accounting problems associated with partnerships and foreign currency transactions.

Prerequisite(s):

BUS 306 Minimum Grade: C- OR T

BUS 407 - Auditing I

3 Credit(s)

Study of ethical standards, auditing standards, audit procedures, and evolution of internal control to learn how financial statements are examined and audit reports prepared in accordance with Generally Accepted Auditing Standards.

Prerequisite(s):

BUS 305 Minimum Grade: C- OR T
AND

BUS 306 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 409 - Fraud Examination

3 Credit(s)

This class will explain how occupational fraud is committed, how fraudulent conduct can be deterred and how allegations of fraud should be investigated and resolved.

Prerequisite(s):

BUS 305 Minimum Grade: C- OR T

BUS 455 - Entity Taxation

4 Credit(s)

Business 455 concentrates on the federal income tax consequences of the formation, normal operation, and the dissolution of corporations, partnerships, and fiduciaries. Other taxation problems of special interest may be covered.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

Electives

BUS 308 - Managerial Cost Accounting II

3 Credit(s)

Principles and methods of recording and interpreting cost data. Major emphasis on developing accounting information for planning, control, and decision making.

Prerequisite(s):

BUS 307 Minimum Grade: C- OR T

BUS 358 - Accounting Ethics

3 Credit(s)

Ethics as it applies to the accounting and auditing professions and will be the focus of this course. Emphasis will be on

the concept of independence, along with integrity, objectivity, ethical reasoning, and other core values necessary for a high level of professional ethics in the accounting profession.

Prerequisite(s):

BUS 306 Minimum Grade: C- OR T

BUS 371 - Payroll Accounting and Taxation

3 Credit(s)

This course is devoted to the principles of payroll computations and administration including creation and maintenance of payroll records as well as proper payroll tax depositing and reporting.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 377 - Agricultural Taxation

3 Credit(s)

This course is devoted to specific income tax laws associated with agricultural business to include farmers and ranchers both as individuals and as part of taxable entities.

Prerequisite(s):

BUS 355 Minimum Grade: C- OR T

BUS 465 - Estate, Gift, and Fiduciary Tax Law

3 Credit(s)

This course will address the fundamentals of Estate, Gift, and Fiduciary tax law. Topics will include Federal Gift Tax, death transfer tax laws, and fundamentals and reporting returns for estates.

Prerequisite(s):

BUS 455 Minimum Grade: C- OR T

Bachelor of Science in Business Administration, Agribusiness Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Agribusiness Emphasis

BUS 105 - Introduction to Agribusiness

3 Credit(s)

An introductory course designed to provide students with a basic background in agribusiness issues and practices to give them the foundation to be successful in upper level agribusiness courses and meet expectations for basic knowledge in agribusiness relationships.

BUS 364 - Agribusiness Management

3 Credit(s)

Management issues of agricultural businesses such as the forms of ownership, financial statements, analysis, and planning, investment analysis, strategic marketing, management of organizations, and human resources management.

Prerequisite(s):

BUS 105 Minimum Grade: C- OR T

AND

BUS 207 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

BUS 378 - Commodities/Risk Management

3 Credit(s)

The goal of this course is to provide students with knowledge of risk management for agricultural endeavors as well as practical knowledge of how the futures and options markets work, how to manage risk involved in agriculture production or operation, and various tools available to manage specific situations. BUS 103 Introduction to Business or instructor consent. BUS 105 Introduction to Agribusiness or instructor consent. BUS 318 Principles of Management or instructor consent.

Prerequisite(s):

BUS 103 Minimum Grade: D OR T

AND

BUS 105 Minimum Grade: D OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 384 - Natural Resources/Water Law

3 Credit(s)

The goal of this course is to provide students with knowledge of the regulatory responsibilities related to agriculture production and operations with respect to natural resources and water. The course will cover federal, state, and local requirements as well as application to agribusiness endeavors.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 211 Minimum Grade: C- OR T

BUS 398 - Farm and Ranch Management

3 Credit(s)

The application of economic and business principles to the management and operation of farms and ranches for decision making purposes.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 207 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

BUS 478 - Agricultural Marketing

3 Credit(s)

An overview of current marketing methods used for agricultural products and services, including value added marketing.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 488 - Agricultural Policy and Farm Bill

3 Credit(s)

Development and implementation of public policy in agriculture, implications of international competition and trade, and development and interpretation of argument in policy development.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

BUS 498 - World Food Distribution/Agricultural Economics

3 Credit(s)

Knowledge and application of economic concepts to the sectors of agriculture including microeconomic and macroeconomic relationships, world markets, and trade.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Plus 12 Upper-level Business Credits as Approved by Advisor

Bachelor of Science in Business Administration, Banking and Finance Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Finance Emphasis (21 credits from the following)

BUS 367 - Financial Analysis

3 Credit(s)

Examination of techniques for analyzing, understanding, and applying financial information in decision situations. Topics start with financial statement analysis, development of financial models, financial forecasting, cost of capital estimation, and ends with company valuation. In addition, there will be a "hands on" project to provide students with experience in analyzing and understanding a corporate annual report using EXCEL spread sheet analysis.

Prerequisite(s):

BUS 320 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

BUS 368 - Financial Institutions

3 Credit(s)

The course focuses on managing return and risk in modern financial institutions. It examines the financial services industry risk of financial intermediation, measurement of interest rate risk, credit and market risk, individual loan and liquidity risks, as well as off-balance sheet and sovereign risks. The course covers management of assets and liabilities, capital adequacy and depository insurance. Futures, forwards, options, caps, floors, collars, swaps and securitization will be also covered.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 373 - Investment Analysis

3 Credit(s)

BUS 318 recommended. The course is a study of personal investment planning, traditional and alternative investment vehicles, investment media, investment strategy, and portfolio analysis. The student will become familiar with both money market and capital investment markets as well as strategies for assessing returns and risks of various security instruments.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

BUS 383 - International Financial Management

3 Credit(s)

A comprehensive study of international financial markets that covers currency exchange mechanisms in theory and practice. In line with the rapid globalization of the economy, the goal of this course is to analyze the international financial environment and how managers function in this increasingly uncertain global environment. The course will focus on three main areas of international finance: international financial environment, exchange rate behavior, and exchange risk management.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 414 - Commercial Banking

3 Credit(s)

Bank Management is an in-depth study of banking institutions, with special emphasis on commercial banks and their connection to the Federal Reserve System and other financial institutions. A risk management perspective is adopted, and the fast changing global regulatory and financial environments are discussed. A Uniform Bank Performance Report will be analyzed.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 416 - Business Financial Problems

3 Credit(s)

Emphasis on financial decision-making within the firm using case studies as the primary activity. Topics include

financial goals and strategy, financial analysis and forecasting, capital budgeting, capital structure decisions, dividend policy, and firm valuation.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 426 - Money and Capital Markets

3 Credit(s)

Discussion of how financial markets are organized, their role in the allocation of funds to various market segments, and the interaction between financial markets. Topics include aggregate flow of funds analysis, an overview of financial markets, securities markets (money, bond, mortgage, stock, foreign exchange, derivative securities), as well as commercial banks, insurance and securities companies, mutual and pension funds markets. This course also covers financial markets risks and regulations.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 431 - Tech Analysis of Stock Trends

3 Credit(s)

Advanced studies in technical market analysis and trading, money management, investor psychology and analysis elements are considered. The Focus will be on the study of price action in trading markets, patterns and trends, price behavior of financial securities, trading tactics, and construction of a trading or investment model. The course will help students prepare for the Chartered Market Technician (CMT) designation.

Prerequisite(s):

BUS 373 Minimum Grade: C- OR T

BUS 432 - Series 7 General Securities Exam Review

3 Credit(s)

The Series 7 License Exam Review course is designed to prepare the student to take the National Association of Securities Dealers General Securities Representative Exam. After passing the Series 7 License exam the candidate can be licensed to sell various types of securities.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

AND

BUS 373 Minimum Grade: C- OR T

Plus 6 Credits of any Business or Economics Courses

Bachelor of Science in Business Administration, Economics Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Economics Emphasis

ECON 360 - Natural Resource Economics

3 Credit(s)

This course studies the usage of natural resources in the economy, the value of natural resources to society, and the allocation of renewable and nonrenewable resources. The course introduces economic theories for efficient management of natural resources and considers sustainability, conservation, and preservation. The course will consider resources, such as water, on a local scale as well as a global scale.

ECON 365 - Political Economy

3 Credit(s)

This course offers a critical introduction to the central ideas used by Political Economists to understand the structure, social meaning, and historical development of capitalist economies. Lectures draw on competing traditions in Political Economy to provide a critical appreciation of the defining socio-economic relationships of capitalism, including wages, productivity, profits, inequality, prices, entrepreneurship, markets, capitalism, growth, crises, recessions, socialism, etc. While these discussions necessarily involve economic theory, the overall emphasis is on how an analytically diverse understanding of these relationships can open up unique, critical perspectives into the problems of contemporary capitalism.

ECON 370 - Economics of Crises

3 Credit(s)

This course studies the nature of economic crises in capitalism. The course will explore theories of crises such as supply-side, demand-side, and financial crises. We will analyze the social consequences of crises as well as the policies implemented.

ECON 425 - Economic Policy

3 Credit(s)

Study of the structure and functions of the U.S. economic system and the use of monetary, fiscal, and other policies to stabilize the economy. Emphasis on historical roots and the evolution into new behavioral economic ideas as well as the complex interplay of policy and economic forces.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

ECON 433 - Managerial Economics

3 Credit(s)

Application and integration of microeconomic theory and the tools of decision science to managerial decision-making. Particular emphasis placed on the economic differences caused by monopolies, cartels, and multi-national organizations and their domination of many industries. Understanding of game theory and new economic analysis tools.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

HCA 455 - Health Care Economics

3 Credit(s)

This course will examine health care decision-making and the functioning of health care markets in the U.S. The course is not designed as a pure economics theory course but instead emphasizes how you can frame and analyze various health issues using the principles of economics. By doing so, you will gain a powerful new perspective that will help you understand the decisions made by individuals and organizations in the face of scarce resources. Instructor permission.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

BUS 498 - World Food Distribution/Agricultural Economics

3 Credit(s)

Knowledge and application of economic concepts to the sectors of agriculture including microeconomic and macroeconomic relationships, world markets, and trade.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

A Minimum of 12 Credits from the Following

BUS 307 - Managerial Cost Accounting I

3 Credit(s)

Principles and methods of recording and interpreting cost data. Major emphasis on developing accounting information for planning, control, and decision making.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 320 - Bus Computer Applications II

3 Credit(s)

The focus of this course is to explore application software on a comprehensive level to gain expertise to support decision-making and manage information. Study includes intermediate Word and Excel applications; intermediate to advanced PowerPoint; intermediate Access, integration of Office applications, and an introduction to HTML and building web pages.

Prerequisite(s):

BUS 120 Minimum Grade: C- OR T

BUS 355 - Individual Income Taxation

4 Credit(s)

This course involves the study of federal income tax on individual and property transactions. Objectives of taxation are given major emphasis. The Internal Revenue Code is discussed in addition to textbook material in order to acquaint the student with the ultimate source of tax law. Income tax return problems and tax cases may be assigned to provide practical application of the tax law.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 373 - Investment Analysis

3 Credit(s)

BUS 318 recommended. The course is a study of personal investment planning, traditional and alternative investment vehicles, investment media, investment strategy, and portfolio analysis. The student will become familiar with both money market and capital investment markets as well as strategies for assessing returns and risks of various security instruments.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

BUS 378 - Commodities/Risk Management

3 Credit(s)

The goal of this course is to provide students with knowledge of risk management for agricultural endeavors as well as practical knowledge of how the futures and options markets work, how to manage risk involved in agriculture production or operation, and various tools available to manage specific situations. BUS 103 Introduction to Business or instructor consent. BUS 105 Introduction to Agribusiness or instructor consent. BUS 318 Principles of Management or instructor consent.

Prerequisite(s):

BUS 103 Minimum Grade: D OR T

AND

BUS 105 Minimum Grade: D OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 383 - International Financial Management

3 Credit(s)

A comprehensive study of international financial markets that covers currency exchange mechanisms in theory and practice. In line with the rapid globalization of the economy, the goal of this course is to analyze the international financial environment and how managers function in this increasingly uncertain global environment. The course will focus on three main areas of international finance: international financial environment, exchange rate behavior, and exchange risk management.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 414 - Commercial Banking

3 Credit(s)

Bank Management is an in-depth study of banking institutions, with special emphasis on commercial banks and their connection to the Federal Reserve System and other financial institutions. A risk management perspective is adopted, and the fast changing global regulatory and financial environments are discussed. A Uniform Bank Performance Report will be analyzed.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 416 - Business Financial Problems

3 Credit(s)

Emphasis on financial decision-making within the firm using case studies as the primary activity. Topics include financial goals and strategy, financial analysis and forecasting, capital budgeting, capital structure decisions, dividend policy, and firm valuation.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 466 - Business Ethics Decision Making

3 Credit(s)

This course explores various ethical issues facing business leaders in modern society. Students will utilize current issues to analyze ethical dilemmas and decision-making processes common to modern organizations. Emphasizes critical thinking, critical reading, and the importance of professional ethics.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

Bachelor of Science in Business Administration, Entrepreneurship Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Entrepreneurship Emphasis

BUS 315 - Sales and Sales Management

3 Credit(s)

This course is designed to introduce students to management techniques as they relate specifically to the marketing and sales area. Topics covered include: the selling process, compensation systems, motivation and leadership, time and territory management, sales forecasting, quotas, and evaluating the sales force.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 362 - Human Resource Management

3 Credit(s)

Analysis of techniques used to organize, motivate, and manage personnel in public or private organizations. Includes case studies and examines current literature and the current legal environment..

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

BUS 448 - Interactive/Social Media Marketing

3 Credit(s)

This course focuses on relationship marketing, interactive marketing, integration of consumer data, Internet marketing (E-commerce), media advertising, catalogs, mailing lists, telemarketing, and the use of direct marketing techniques to replace or enhance the traditional marketing methods of retail and direct sales.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 466 - Business Ethics Decision Making

3 Credit(s)

This course explores various ethical issues facing business leaders in modern society. Students will utilize current issues to analyze ethical dilemmas and decision-making processes common to modern organizations. Emphasizes critical thinking, critical reading, and the importance of professional ethics.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 467 - Creativity and Innovation

3 Credit(s)

Course objectives are to develop skills in generating new and original ideas, increase ability to convert ideas into action and success, and increase knowledge and skill in creative problem solving as applied to business scenarios.

Prerequisite(s):

BUS 361 Minimum Grade: C-

BUS 468 - New Business Venturing

3 Credit(s)

This course introduces students to starting and operating a business. Students will be exposed to how business interacts with government, financial institutions, and society. This course will examine and study the process, challenges, risks, and rewards of starting up a new business. The student will be equipped with tools required to start their own business.

Prerequisite(s):

BUS 365 Minimum Grade: C-

Plus 6 Credits of 300- to 400-level business or economics courses approved by the student's advisor

Bachelor of Science in Business Administration, General Business Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Plus 30 credits from 300- to 400-level business, economics, or health care administration courses

Bachelor of Science in Business Administration, Health Care Administration Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

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Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Health Care Administration Emphasis

HCA 303 - Trends and Issues in Health Care

3 Credit(s)

This course is an introductory Health Care Administration course and will expose the student to the industry and its significant elements and trends of the current health care environment.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

HCA 305 - Health Care Marketing

3 Credit(s)

This course involves an analysis, evaluation, and implementation of marketing strategies within health care and managed-care environments. Designed to develop skills in segmenting customer and medical markets, brand products and services, enhance a communication strategy to the consumer, and develop pricing approaches. Methods and models of marketing fundamentals will be introduced.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 311 - Health Care Law and Ethics

3 Credit(s)

This course presents an overview of the legal and ethical issues faced by health care consumers, practitioners, and administrators. The course will introduce students to the legal aspects of health care at the federal, state, and local levels. Topics covered will include criminal and civil claims against health care providers, corporate and individual liability, and legal and ethical decision-making, individual liability, and legal and ethical decision-making. HCA 361 Health Care Administration. Instructor permission.

Prerequisite(s):

BUS 211 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 312 - Health Care Med Terminology

3 Credit(s)

This course will focus on the components of medical terms and the methods for analysis of word definitions. The emphasis will be on learning to define, pronounce, and spell medical terms using prefixes, suffixes, roots, and combining forms related to the anatomy and physiology of the human body. The course will include an introduction to operative, diagnostic, therapeutic, and symptomatic terminology of all body systems.

HCA 325 - Health Care Informatics

3 Credit(s)

This course is a study of record keeping practices in the hospital and physician's office. Emphasis is placed in hospital and medical staff organization, patient record content, procedures in filing, numbering and retention of patient records, quantitative analysis, release of patient information, forms control and design, indexes and registers, reimbursement, regulatory and accrediting agencies, and alternate health care delivery systems. Instructor permission required.

Prerequisite(s):

BUS 120 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

BUS 362 - Human Resource Management

3 Credit(s)

Analysis of techniques used to organize, motivate, and manage personnel in public or private organizations. Includes case studies and examines current literature and the current legal environment..

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

HCA 363 - Health Care Finance

3 Credit(s)

This course is devoted to the practical aspects of finance in health care, an examination of current practices in financial management of health care organizations, and managerial applications to specific problems facing health care managers. The first part of the course will focus on an overview of health care finance, managerial accounting, and financial analysis. The second part will continue with managerial accounting and financial analysis and will concentrate on the various tools used in financial management. Emphasis is placed on unique issues and concerns that result from the regulatory framework of health care organizations. At the conclusion of this course, the student should be able to discuss the financial structure, market forces, controls and techniques used in the health care management field, be able to read and analyze financial statements and budgets and have the skill to interpret financial and operating performance.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

HCA 402 - Public and Population Health

3 Credit(s)

This course consists of an examination of epidemiological concepts and methods of studying the distribution and determinants of morbidity and mortality in human population. The knowledge and skills acquired should enable one to understand and critically review scientific literature dealing with epidemiology concepts and measures. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

HCA 455 - Health Care Economics

3 Credit(s)

This course will examine health care decision-making and the functioning of health care markets in the U.S. The course is not designed as a pure economics theory course but instead emphasizes how you can frame and analyze various health issues using the principles of economics. By doing so, you will gain a powerful new perspective that will help you understand the decisions made by individuals and organizations in the face of scarce resources. Instructor permission.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 462 - Quality Management in Health Care

3 Credit(s)

Quality is an important aspect of health care; indeed, for most people, it is the most important aspect. Quality is defined in the dictionary as "degree of excellence" or "superiority in kind." Quality of care must be part of both the process and outcome of health care whenever possible. The issue is how does the system develop mechanisms to assure such quality? This course serves as an introduction to the process of quality management in health care organizations. Principles of total quality in health care will be discussed. Differentiation between quality assurance and quality management will also be presented. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

HCA 480 - Health Care Policy

3 Credit(s)

This course is an introduction to health policy. It will focus on how U.S. health policy is developed and will provide students with a general understanding of the policy making process and debates related major U.S. health care legislations.

Prerequisite(s):

HCA 303 Minimum Grade: C- OR T
AND

HCA 305 Minimum Grade: C- OR T

AND

HCA 363 Minimum Grade: C- OR T

Bachelor of Science in Business Administration, Management Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Management Emphasis

BUS 362 - Human Resource Management

3 Credit(s)

Analysis of techniques used to organize, motivate, and manage personnel in public or private organizations. Includes case studies and examines current literature and the current legal environment..

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

BUS 401 - Organizational Behavior

3 Credit(s)

Participants in the course will explore the theory of human relations in organizations. The emphasis will be on the application of behavioral science knowledge to contemporary organizational issues, which may include individual and group dynamics, motivation, leadership, organizational change, and development.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 418 - Leadership Strategies

3 Credit(s)

This course presents contemporary theories and approaches to leadership practices in modern organizations. Students learn how effective leadership can assist in the creation of a strong organizational culture and the implications external forces have on individual leadership development and continued growth.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 419 - Organizational Change/Develop

3 Credit(s)

The study of planned and unplanned change in organizations to include diagnosis, planning, and implementation of organizational change initiatives. Emphasis is on teamwork within organizations and survey development.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 466 - Business Ethics Decision Making

3 Credit(s)

This course explores various ethical issues facing business leaders in modern society. Students will utilize current issues to analyze ethical dilemmas and decision-making processes common to modern organizations. Emphasizes critical thinking, critical reading, and the importance of professional ethics.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

Plus 3 Credits from the following

ECON 425 - Economic Policy

3 Credit(s)

Study of the structure and functions of the U.S. economic system and the use of monetary, fiscal, and other policies to stabilize the economy. Emphasis on historical roots and the evolution into new behavioral economic ideas as well as the complex interplay of policy and economic forces.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

ECON 433 - Managerial Economics

3 Credit(s)

Application and integration of microeconomic theory and the tools of decision science to managerial decision-making. Particular emphasis placed on the economic differences caused by monopolies, cartels, and multi-national organizations and their domination of many industries. Understanding of game theory and new economic analysis tools.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

Plus 6 Credits of of 300 to 400 level business or economics courses approved by the student's advisor

Bachelor of Science in Business Administration, Marketing Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Marketing Emphasis

BUS 315 - Sales and Sales Management

3 Credit(s)

This course is designed to introduce students to management techniques as they relate specifically to the marketing and sales area. Topics covered include: the selling process, compensation systems, motivation and leadership, time and territory management, sales forecasting, quotas, and evaluating the sales force.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 335 - Consumer Behavior

3 Credit(s)

Study of consumer behavior as it relates to the marketing functions. Emphasis on the models of consumer behavior and their application to practical marketing problems.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 345 - Advertising

3 Credit(s)

Discusses the history, purposes, and regulations of the advertising industry. Topics covered include creative principles, media advantages and disadvantages, media planning, regulation of advertising, and coordination with other promotion

activities.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 448 - Interactive/Social Media Marketing

3 Credit(s)

This course focuses on relationship marketing, interactive marketing, integration of consumer data, Internet marketing (E-commerce), media advertising, catalogs, mailing lists, telemarketing, and the use of direct marketing techniques to replace or enhance the traditional marketing methods of retail and direct sales.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 454 - Market Research & Information

3 Credit(s)

Study of the theory and methods used in marketing research to address marketing problems. May include the completion of a research project where students learn by performing a research project from problem formulation to writing a research report. Also prepares the students for evaluating research performed by others.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T
AND

BUS 318 Minimum Grade: C- OR T

BUS 460 - Marketing Management

3 Credit(s)

Twelve hours of marketing courses and senior status required. Capstone course in marketing. Study of the problems faced by marketing managers as they make decisions and develop policies.

Prerequisite(s):

BUS 454 Minimum Grade: C- OR T

Plus any 3 Courses from the Following

BUS 356 - Retailing

3 Credit(s)

Study of marketing and management problems faced in the operation of a retail business. Emphasis is given to techniques for solving problems in location, management, and merchandising, especially with the integration of Internet retailing (E-Tailing) as both a competitor and an extension of the storefront business.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 385 - Sports Marketing

3 Credit(s)

Illustrates the dynamic, progressive and influential nature of sports marketing. Explores the sport marketing concept as a consumer-driven, integrated, goal-oriented philosophy for a team, event, organization or athlete. Topics covered include: athletic endorsements, team sports, event sponsorships and alternative sports.

BUS 441 - International Marketing

3 Credit(s)

Analysis of opportunities, distinctive characteristics, and emerging trends in foreign markets, including exploration of alternative methods and strategies for entering foreign markets; organizational planning and control; impact of social, cultural, economic, and political differences; and problems of adapting American marketing concepts and methods. This is accomplished through real life planning and implementation of an international marketing plan designed to market a product or service in a foreign country or countries

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 449 - Marketing in the 21st Century

3 Credit(s)

This course provides the practical tools and strategies required to successfully leverage social networks, capitalize on their powerful word-of-mouth lift, and how to measure these interactive marketing efforts. These tools will be used on an actual social media marketing campaign for a business or non-profit entity. Current and future marketing tools will be discussed and evaluated.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T
AND

BUS 448 Minimum Grade: C- OR T

HCA 305 - Health Care Marketing

3 Credit(s)

This course involves an analysis, evaluation, and implementation of marketing strategies within health care and managed-care environments. Designed to develop skills in segmenting customer and medical markets, brand products and services, enhance a communication strategy to the consumer, and develop pricing approaches. Methods and models of marketing fundamentals will be introduced.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

Bachelor of Science in Business Administration, Project Management Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Project Management Emphasis

BUS 351 - Data Analysis

3 Credit(s)

This course introduces data manipulation and analytical techniques to identify insights, improve the ability to make predictions and prescribe future actions to make better business decisions. Excel Software will be used extensively.

Prerequisite(s):

BUS 120, BUS 318

OR

Permission of instructor

BUS 352 - Spreadsheet Modeling

3 Credit(s)

This course covers the fundamentals of spreadsheet modeling in Excel. The course includes spreadsheet modeling, graphical linear programming, linear programming in spreadsheets, time series forecasting, Monte Carlo simulation and decision analysis.

Prerequisite(s):

BUS 120, BUS 318

OR

Permission of instructor

BUS 357 - Project Management

3 Credit(s)

This course covers the fundamentals of project management including project definition, project selection, project planning, estimating, scheduling, resource allocation and project control.

Prerequisite(s):

BUS 120, BUS 318, BUS 361, BUS 363

OR

Permission of instructor

BUS 451 - Statistical Quality Control

3 Credit(s)

Theory and methods used in statistical quality control. Emphasizes basic statistical analysis, variables control charts, attributes control charts, interpretation of control charts, estimation of process parameters, gage capability, acceptance sampling, and service quality.

Prerequisite(s):

BUS 120, BUS 318

OR

Permission of instructor

BUS 452 - Supply Chain Management

3 Credit(s)

Analysis and management of supply chain and logistics management. Topics include customer service, inventory management, information systems, transportation, warehousing, logistics relationships, performance measurement, and supply chain strategy.

Prerequisite(s):

BUS 120, BUS 318, BUS 361, BUS 363

OR

Permission of instructor

BUS 457 - Process Improvement Management

3 Credit(s)

This course introduces continuous improvement concepts via Six Sigma's DMAIC improvement cycle and improvement tools. Students will develop a working knowledge of how to apply these methodologies to improve processes.

Prerequisite(s):

BUS 318, BUS 451

OR

Permission of instructor

Plus 6 Credits from 300-400 Level Business/Econ Courses Approved by the Student's Advisor

Bachelor of Science in Business Administration, Systemic Change and Communities Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Systemic Change and Communities Emphasis

24 credits from the following (8 Classes) is Required

BUS 316 - Public and Nonprofit Mgmt

3 Credit(s)

This course is designed to examine public and nonprofit management. This type of management is driven by mission and/or executive/legislative directions. It is not about the bottom line or profit. Students will learn both the theory and practice of public and nonprofit management, using the concept case method and service learning opportunities.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial

theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 419 - Organizational Change/Develop

3 Credit(s)

The study of planned and unplanned change in organizations to include diagnosis, planning, and implementation of organizational change initiatives. Emphasis is on teamwork within organizations and survey development.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 488 - Agricultural Policy and Farm Bill

3 Credit(s)

Development and implementation of public policy in agriculture, implications of international competition and trade, and development and interpretation of argument in policy development.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

BUS 498 - World Food Distribution/Agricultural Economics

3 Credit(s)

Knowledge and application of economic concepts to the sectors of agriculture including microeconomic and macroeconomic relationships, world markets, and trade.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

ECON 360 - Natural Resource Economics

3 Credit(s)

This course studies the usage of natural resources in the economy, the value of natural resources to society, and the allocation of renewable and nonrenewable resources. The course introduces economic theories for efficient management of natural resources and considers sustainability, conservation, and preservation. The course will consider resources, such as water, on a local scale as well as a global scale.

ECON 365 - Political Economy

3 Credit(s)

This course offers a critical introduction to the central ideas used by Political Economists to understand the structure, social meaning, and historical development of capitalist economies. Lectures draw on competing traditions in Political Economy to provide a critical appreciation of the defining socio-economic relationships of capitalism, including wages, productivity, profits, inequality, prices, entrepreneurship, markets, capitalism, growth, crises, recessions, socialism, etc. While these discussions necessarily involve economic theory, the overall emphasis is on how an analytically diverse understanding of these relationships can open up unique, critical perspectives into the problems of contemporary capitalism.

ECON 370 - Economics of Crises

3 Credit(s)

This course studies the nature of economic crises in capitalism. The course will explore theories of crises such as supply-side, demand-side, and financial crises. We will analyze the social consequences of crises as well as the policies implemented.

ECON 425 - Economic Policy

3 Credit(s)

Study of the structure and functions of the U.S. economic system and the use of monetary, fiscal, and other policies to stabilize the economy. Emphasis on historical roots and the evolution into new behavioral economic ideas as well as the complex interplay of policy and economic forces.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

HCA 402 - Public and Population Health

3 Credit(s)

This course consists of an examination of epidemiological concepts and methods of studying the distribution and determinants of morbidity and mortality in human population. The knowledge and skills acquired should enable one to understand and critically review scientific literature dealing with epidemiology concepts and measures. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 455 - Health Care Economics

3 Credit(s)

This course will examine health care decision-making and the functioning of health care markets in the U.S. The course is not designed as a pure economics theory course but instead emphasizes how you can frame and analyze various health issues using the principles of economics. By doing so, you will gain a powerful new perspective that will help you understand the decisions made by individuals and organizations in the face of scarce resources. Instructor permission.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 462 - Quality Management in Health Care

3 Credit(s)

Quality is an important aspect of health care; indeed, for most people, it is the most important aspect. Quality is defined in the dictionary as "degree of excellence" or "superiority in kind." Quality of care must be part of both the process and outcome of health care whenever possible. The issue is how does the system develop mechanisms to assure such quality? This course serves as an introduction to the process of quality management in health care organizations. Principles of total quality in health care will be discussed. Differentiation between quality assurance and quality

management will also be presented. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

Plus 12 hours of upper level courses as determined in consultation with your advisor

Bachelor of Science in Chemistry

Go to: Chemistry

Specific courses required for this degree:

Completion of the Following Required Courses

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

CHEM 321 - Organic Chemistry

4 Credit(s)

A study of the relationship between structure and reactivity of carbon-containing compounds.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 321L

CHEM 321L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 321. Laboratory time will be divided among

techniques, preparation, and mechanistic studies.

Co-requisite(s): CHEM 321

CHEM 322 - Organic Chemistry

4 Credit(s)

A continuation of CHEM 321.

Prerequisite(s):

CHEM 321 Minimum Grade: C- OR T

Co-requisite(s): CHEM 322L

CHEM 322L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-322. Laboratory time will be divided among mechanistic studies, preparation, introductory qualitative analysis, and independent project work.

Co-requisite(s): CHEM-322

CHEM 331 - Analytical Chemistry

3 Credit(s)

The theory and application of classical and instrumental quantitative analysis with additional emphasis on the fate and analysis of chemicals in the environment.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T
AND

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): CHEM 331L

CHEM 331L - Analytical Chemistry Lab

2 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-331

Co-requisite(s): CHEM-331

CHEM 332 - Analytical Chemistry

3 Credit(s)

A continuation of CHEM 331 with additional coverage of chemical equilibria and electrochemistry.

Prerequisite(s):

CHEM 331 Minimum Grade: D OR T

Co-requisite(s): CHEM 332L

CHEM 332L - Analytical Chemistry Lab

2 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 332.

Co-requisite(s): CHEM 332

CHEM 431 - Physical Chemistry Lecture/Thermodynamics

3 Credit(s)

Thermodynamics as applied to chemistry and physics. Specific topics include the laws of thermodynamics, thermochemistry, reaction and phase equilibrium, solutions, and electrochemistry. An introduction to chemical kinetics is included.

Prerequisite(s):

CHEM-132 Minimum Grade: C- OR T
AND

MATH-121 Minimum Grade: C- OR T

AND

PHYS-225 Minimum Grade: C- OR T

AND

PHYS-226 Minimum Grade: C- OR T

OR

PHYS-230 Minimum Grade: D OR T

AND

PHYS-231 Minimum Grade: D OR T

AND

PHYS-232 Minimum Grade: D OR T

AND

PHYS-233 Minimum Grade: D OR T

Co-requisite(s): CHEM 433

CHEM 432 - Physical Chemistry Lecture/Quantum Mechanics

3 Credit(s)

Quantum mechanics with applications to atomic structure, bonding, solid state, and spectroscopy. An introduction to kinetic molecular theory of gas, transport properties, and statistical mechanics is included.

Prerequisite(s):

CHEM-132 Minimum Grade: C- OR T

AND

MATH-121 Minimum Grade: C- OR T

AND

PHYS-225 Minimum Grade: C- OR T

AND

PHYS-226 Minimum Grade: C- OR T

OR

PHYS-230 Minimum Grade: D OR T

AND

PHYS-231 Minimum Grade: D OR T

AND

PHYS-232 Minimum Grade: D OR T

AND

PHYS-233 Minimum Grade: D OR T

CHEM 433 - Physical Chemistry Laboratory

2 Credit(s)

The principles of physical chemistry applied in the laboratory.

Prerequisite(s):

CHEM 431 Minimum Grade: D OR T

Co-requisite(s): CHEM 431

CHEM 434 - Physical Chemistry Laboratory

2 Credit(s)

The principles of physical chemistry applied in the laboratory. CHEM-434 includes an independent project.

Prerequisite(s):

CHEM 431 Minimum Grade: D OR T

Co-requisite(s): CHEM 432

CHEM 471 - Chemistry Seminar

1 Credit(s)

Capstone course intended for senior chemistry majors consisting of seminars presented by guest speakers, staff, and students; an assessment exam for seniors; and job placement information. Prerequisite: Completion of sufficient degree requirements to be within three semesters of graduating with a chemistry major.

CHEM 472 - Chemistry Seminar Continuation

1 Credit(s)

A continuation of CHEM 471.

Prerequisite(s):

CHEM 471 Minimum Grade: C- OR T

CHEM 401 - Biochemistry

3 Credit(s)

A study of structural biochemistry. Course begins with a review of water, the lipophilic environment, noncovalent bonding, and bioenergetics. Topics include amino acids, peptides, proteins, nucleic acids, carbohydrates, and lipids. Enzymes are discussed with emphasis on mechanism and kinetics.

Prerequisite(s):

CHEM 322 Minimum Grade: C- OR T

Co-requisite(s): CHEM 401L

CHEM 401L - Biochemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-401. Laboratory time will be spent learning protein purification techniques and doing independent project work.

Co-requisite(s): CHEM-401

CHEM 461 - Inorganic Chemistry

3 Credit(s)

Theoretical aspects of inorganic chemistry based upon periodic relationships, symmetry, structure bonding, and reactivities. Offered fall semesters of odd-numbered years.

Prerequisite(s):

CHEM-321 Minimum Grade: C- OR T
AND

CHEM-322 Minimum Grade: C- OR T

OR

CHEM-331 Minimum Grade: C- OR T

AND

CHEM-332 Minimum Grade: C- OR T

Co-requisite(s): CHEM-461L

CHEM 461L - Inorganic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-461. Practices of inorganic chemistry in the laboratory including synthesis and characterization of compounds.

Co-requisite(s): CHEM-461

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

MATH 220 - Calculus III

4 Credit(s)

This course is an introduction to the calculus of functions of several variables. Typical topics include three-dimensional analytic geometry, vectors, parametric curves and surfaces, arc length and curvature, limits, continuity, partial derivatives, gradients, directional derivatives, tangent planes, multiple integrals, vector fields, line and surface integrals, Green's theorem, Stokes' Theorem, and the divergence theorem.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

OR

MATH 327 - Differential Equations

3 Credit(s)

An introduction to the study and application of ordinary differential equations. Typical topics include first order differential equations, linear differential equations, systems of equations, existence and uniqueness of solutions, bifurcations, the Laplace transform, matrix methods, and stability theorems.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for

students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

The Following Courses Are Recommended

CHEM 424 - Advanced Organic Chemistry

3 Credit(s)

A third semester course in organic chemistry, designed for students who wish to gain a better background in the subject. Topics include bioorganic chemistry, pericyclic reaction, and natural products synthesis. Offered in spring semesters upon sufficient demand. Three hours of lecture per week.

Prerequisite(s):

CHEM 322 Minimum Grade: C- OR T

CHEM 445 - Polymer Chemistry

3 Credit(s)

Introduction to the chemistry of organic, inorganic, and bio-polymers, with an emphasis on synthesis, mechanism, and reaction kinetics. Modern methods of polymer characterization are also covered. Offered upon sufficient demand.

Prerequisite(s):

CHEM-322 Minimum Grade: C- OR T

AND

CHEM-431 Minimum Grade: D OR T

CHEM 334 - Environmental Chemistry

3 Credit(s)

This course is designed to introduce the student to a series of topics including stratospheric chemistry, air pollution, global warming, climate change, renewable energy, pesticides, water pollution, and heavy metal pollution.

Prerequisite(s):

CHEM 331 Minimum Grade: C- OR T

Co-requisite(s): CHEM 334L

CHEM 334L - Environmental Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 334.

Co-requisite(s): CHEM 334

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

MATH 321 - Linear Algebra

3 Credit(s)

An introduction to linear algebra. Typical topics include solutions of systems of linear equations, matrix algebra, determinants, vector spaces, linear independence, span, basis, dimension, coordinates, linear transformations, matrix representations of linear transformations, eigenvalues, eigenvectors, diagonalization, Gram-Schmidt orthonormalization

projection, and applications.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

PHYS 300 - Electronics and Microcontrollers

4 Credit(s)

A combined lecture and laboratory course in electronics consisting of four laboratory contact hours and two lecture contact hours per week. The course is a study in operational amplifiers, TTL integrated circuits, and microcontroller interfacing and programming. The focus is on applications and circuit design. Offered in the fall of even years.

Prerequisite(s):

PHYS 226 Minimum Grade: C- OR T
OR

PHYS 232 Minimum Grade: C- OR T

Notes

Students planning graduate work in biochemistry or biology should take CHEM 401 and CHEM 402. Taking both is highly recommended for students going to graduate school in either field. For students oriented in the physical or theoretical areas of chemistry, both MATH 220 and MATH 327 are recommended.

Bachelor of Science in Geosciences, Geology Emphasis

Go to: Geosciences

Completion of the Following Required Courses

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

GSCI 112 - Earth History

4 Credit(s)

Introduction to the geological evolution of the earth through time using basic principles of stratigraphy and paleontology. Laboratory work includes identification and classification of fossils and correlation of sedimentary environments.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

GSCI 201 - Introduction to Cartography and GIS

3 Credit(s)

This course will introduce students to the core concepts of Geographic Information Systems (GIS) and the importance and relevance of GIS in today's world. Students will learn what GIS is, what it is used for, and how to perform basic and core tasks involving GIS analysis. An objective is to help students develop the ability to think critically about cartographic processes and representations as well as develop their skills in creating maps. Students are expected to have basic computer proficiency prior to enrolling in this course.

GSCI 321 - Geomorphology with Environmental Applications

4 Credit(s)

This course is a study of the processes that control the development of the materials and landforms found on the earth's surface. An emphasis is placed upon the hydrologic and variables in generating landforms and human interactions with these formative processes. Field trips, topographic map, and aerial photo exercises are required. Offered spring

semester of even-numbered years.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 331 - Macro and Optical Mineralogy

5 Credit(s)

This course provides a systematic identification of natural minerals and gemstones utilizing their physical, crystallographic, and optical characteristics.

Prerequisite(s):

GSCI 112 Minimum Grade: C- OR T

GSCI 334 - Igneous/Metamorphic Petrology

5 Credit(s)

The study of the occurrence and origin of igneous and metamorphic rock. Laboratory exercises will emphasize the petrographic analysis of both macro and optical components of igneous and metamorphic rocks. Course includes field trips. Course is offered Spring semester of even-numbered years. GSCI-334 is a complimentary course with GSCI-343 Sedimentology and Stratigraphy

Prerequisite(s):

GSCI 331 Minimum Grade: C- OR T

GSCI 343 - Sedimentology and Stratigraphy

4 Credit(s)

This course studies the origin and occurrence of sedimentary materials and their vertical succession. Sediment dynamics and structures will be explored within various depositional settings. Course includes required field trips. GSCI-343 is complementary to Igneous and Metamorphic Petrology (GSCI-334).

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 371 - Structural Geology

4 Credit(s)

This course focuses on the recognition, representation, and significance of geologic structures of the earth's crust. This course includes occasional required field trips and is offered fall semester of even-numbered years.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 450 - Senior Capstone in Geosciences

2 Credit(s)

Capstone experiences integrate material learned in the major through independent research and creative thinking by students. The capstone experience may include a primary research experience (such as field project or internship) or a substantive exploration of a geoscience topic. Emphasis is also placed on effective writing and oral presentation skills.

GSCI 495 - Field Geology

6 Credit(s)

This course teaches fundamental applications of traditional geological field mapping methods and recognition of geological features in an outdoor setting. Report writing, presentations, and planning for field work are also covered. Modern technology is included whenever appropriate to learning field-based methods.

A Minimum of 2 of the Following Three Courses

GSCI 330 - Nature and Properties of Soils

4 Credit(s)

This course analyzes soils as natural bodies and managed resources, focusing on impacts of landforms, hydrology, nutrients, and organisms on soils. The laboratory includes analysis of soil patterns, methods of sampling, and techniques of determining physical and chemical properties of soils. Course includes three hours of lecture and two hours of laboratory per week.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T
AND

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

GSCI 433 - Environmental Geochem Model

3 Credit(s)

This lecture and computer modeling course examines the interaction of geological materials with the surface environment. Processes of transport and fate of contaminants and pollutants from natural and man made sources will be addressed, as well as the geology of some natural resources that contribute pollutants.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T
AND

CHEM 131 Minimum Grade: C- OR T

OR

CHEM 132 Minimum Grade: C- OR T

GSCI 440 - Groundwater

4 Credit(s)

This course explores the groundwater system and its relationship with surface water systems of rivers, lakes, and oceans.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620 and GSCI 112 Minimum Grade: C- or T

Completion of Required Support courses

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-

OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 226 - College Physics II

5 Credit(s)

The second course of a two-semester lecture-laboratory sequence introducing the fundamental principles of physics. In the second semester, students will be introduced to the areas of electricity, electric circuits, optics, and topics in modern physics. Conceptual understanding as well as problem-solving techniques will be emphasized in the lecture. The laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture.

Prerequisite(s):

PHYS 225 Minimum Grade: C- OR T

Recommended Courses

GSCI 123 - Geology of the San Luis Valley

1 Credit(s)

This course explores the local geology of the San Luis Valley and surrounding areas on day trips. Course is offered during the fall or spring semester. Outdoor activity required.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 350 - Geology Excursion

2 Credit(s)

This course centers around a field trip experience of approximately one week, generally during spring break, to different areas of the southwestern U.S. This course may be taken only twice for credit. An additional fee is required. Camping and outdoor activity is required.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

Bachelor of Science in Geosciences, Physical Geography and Conservation Emphasis

Go to: Geosciences

Completion of the Following Required Courses

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

GSCI 201 - Introduction to Cartography and GIS

3 Credit(s)

This course will introduce students to the core concepts of Geographic Information Systems (GIS) and the importance and relevance of GIS in today's world. Students will learn what GIS is, what it is used for, and how to perform basic and core tasks involving GIS analysis. An objective is to help students develop the ability to think critically about cartographic processes and representations as well as develop their skills in creating maps. Students are expected to have basic computer proficiency prior to enrolling in this course.

GSCI 212 - Natural Resource Management on Public Lands

3 Credit(s)

This course will examine public lands management from both a theoretical and descriptive perspective. The major political forces affecting public lands, and the specific details of energy policy, forests, rangelands, national parks, and wildlife on public lands are discussed.

Prerequisite(s):

GSCI 109 Minimum Grade: C-
OR

BIOL 330 Minimum Grade: C-

GSCI 300 - World Geography

3 Credit(s)

The course examines human or cultural geography with a global perspective. It uses a topic-centered approach. It is intended to give the student an appreciation of the interaction between physical geography, environment, and cultural practices.

GSCI 450 - Senior Capstone in Geosciences

2 Credit(s)

Capstone experiences integrate material learned in the major through independent research and creative thinking by students. The capstone experience may include a primary research experience (such as field project or internship) or a substantive exploration of a geoscience topic. Emphasis is also placed on effective writing and oral presentation skills.

Plus a Minimum of Three Courses from the Following (11 to 12 Credits)

GSCI 307 - Bio-Geography

3 Credit(s)

The course builds upon topics introduced in the introductory physical geography and general biology courses and

synthesizes concepts addressed in other upper-division courses dealing with vegetation science, climatology, soil, historical geology, ecology, and evolution to explain patterns and processes influencing past and present distributions of organisms.

Prerequisite(s):

GSCI 109 Minimum Grade: C-
AND

BIOL 209 Minimum Grade: C-

GSCI 311 - Climatology

4 Credit(s)

This course examines the global patterns of climate and the processes that shape them. Particular attention is given to climate change mechanisms (past & present), human-induced changes to the climate system, and likely future climates. Field- and computer-based methodology relevant to the field of climatology is also emphasized.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 321 - Geomorphology with Environmental Applications

4 Credit(s)

This course is a study of the processes that control the development of the materials and landforms found on the earth's surface. An emphasis is placed upon the hydrologic and variables in generating landforms and human interactions with these formative processes. Field trips, topographic map, and aerial photo exercises are required. Offered spring semester of even-numbered years.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 330 - Nature and Properties of Soils

4 Credit(s)

This course analyzes soils as natural bodies and managed resources, focusing on impacts of landforms, hydrology, nutrients, and organisms on soils. The laboratory includes analysis of soil patterns, methods of sampling, and techniques of determining physical and chemical properties of soils. Course includes three hours of lecture and two hours of laboratory per week.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T
AND

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

Plus a Minimum of Two Courses from the Following (6 or 7 Credits)

GSCI 411 - Mountain Geography

3 Credit(s)

This class focuses on the physical science of mountains, including the origin of mountains as well as the climatic, geomorphic, and ecological processes and patterns found in mountain environments. The impact of mountains on human settlement and activities are discussed, as well as how humans have impacted mountain environments.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 420 - Remote Sensing

4 Credit(s)

The course considers acquisition and interpretation of remote sensed environmental data, theory and sensors, and manual and computerized interpretation methods.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T
AND

GSCI 201 Minimum Grade: C- OR T

GSCI 421 - Glacial and Periglacial Geography

3 Credit(s)

This course will examine geomorphological aspects of the cryosphere, giving emphasis to the study of landforms and sediments created by ice sheets and periglacial processes both past and present. Where relevant, the applied aspects of glacial and periglacial geomorphology will be given specific attention.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 462 - Geography and Geology of World Regions

3 Credit(s)

This field course, offered during winter, spring, or summer break, explores regions of the world through a geographic and geological perspective. A different region is studied every other summer. Focus is placed on understanding the structural geology, tectonic landscape, surficial processes, and human-environment interactions of the region. Students will gain an intimate knowledge of world regions, landscapes, and cultures. Examples of world regions include the Northern Alps, Iceland, Great Britain and Newfoundland, and Japan.

Plus a Minimum of Two Courses from the Following (6 to 8 Credits)

GSCI 112 - Earth History

4 Credit(s)

Introduction to the geological evolution of the earth through time using basic principles of stratigraphy and paleontology. Laboratory work includes identification and classification of fossils and correlation of sedimentary environments.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

GSCI 343 - Sedimentology and Stratigraphy

4 Credit(s)

This course studies the origin and occurrence of sedimentary materials and their vertical succession. Sediment dynamics and structures will be explored within various depositional settings. Course includes required field trips. GSCI-343 is complementary to Igneous and Metamorphic Petrology (GSCI-334).

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 433 - Environmental Geochem Model

3 Credit(s)

This lecture and computer modeling course examines the interaction of geological materials with the surface environment. Processes of transport and fate of contaminants and pollutants from natural and man made sources will be addressed, as well as the geology of some natural resources that contribute pollutants.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

AND

CHEM 131 Minimum Grade: C- OR T

OR

CHEM 132 Minimum Grade: C- OR T

GSCI 440 - Groundwater

4 Credit(s)

This course explores the groundwater system and its relationship with surface water systems of rivers, lakes, and oceans.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620 and GSCI 112 Minimum Grade: C- or T

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T
AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

BIOL 314 - Conservation Biology

3 Credit(s)

Conservation biology is the study of how to preserve the world's biological and genetic diversity while maintaining functional ecosystems. The course will explore these issues using an integrated approach with emphasis on identifying ways that wildlife and humans can sustainably coexist.

Prerequisite(s):

BIOL 330 Minimum Grade: C- OR T
OR

GSCI 307 Minimum Grade: C- OR T

BIOL 468 - Vegetation/Habitat Management

3 Credit(s)

A study of the composition, structure and productivity of vegetation with emphasis on ecological applications in creating and managing wildlife habitat.

Prerequisite(s):

BIOL 321 Minimum Grade: C- OR T
AND

BIOL 323 Minimum Grade: C- OR T

AND

BIOL 325 Minimum Grade: C- OR T

AND

BIOL 330 Minimum Grade: C- OR T

AND

BIOL 332 Minimum Grade: C- OR T

OR

BIOL 330 Minimum Grade: C- OR T

AND

GEOG 212 Minimum Grade: C- OR T

Plus a Minimum of One Course from the Following (3 Credits)

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 384 - Natural Resources/Water Law

3 Credit(s)

The goal of this course is to provide students with knowledge of the regulatory responsibilities related to agriculture production and operations with respect to natural resources and water. The course will cover federal, state, and local requirements as well as application to agribusiness endeavors.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 211 Minimum Grade: C- OR T

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

Completion of Required Support Courses

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

Note

A minor is highly recommended. Consult with an advisor.

Bachelor of Science in Kinesiology, Exercise Science Emphasis

Go to: Department of Kinesiology

Complete the Following Core Courses

BIOL 205 - Human Anatomy and Physiology I

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The integumentary, skeletal, muscular, and nervous systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Test - Minimum Score: 3 **OR** MATH 97 Minimum Grade: S or S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T and SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18 **OR** ENG 96 Minimum Grade: S or T

BIOL 206 - Human Anatomy and Physiology II

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The digestive, respiratory, circulatory, urinary, endocrine, and reproductive systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL 205 Minimum Grade: C- or T

OR

BIOL 210 Minimum Grade: C- or T

KIN 100 - Foundations of Kinesiology

3 Credit(s)

This course serves as an overview of the historical, philosophical, ethical and sociological foundations of Kinesiology. This course will be delivered with a specific emphasis on exercise science, sport management, sport psychology, and coaching. Students also will study current issues, challenges and trends as they relate to professional careers and the

administration of sport, fitness, and physical education. Embedded within this course is an introduction to the key Academic Program Goals of Kinesiology.

KIN 120 - Concepts in Wellness

3 Credit(s)

In this course, students will learn about the various dimensions of wellness, assess their own health status, and design interventions to improve personal health through lecture, video, laboratory experiences, and physical activities. This course will also provide students with the information necessary to make evidence-based decisions regarding personal wellness and to understand health disparities among diverse populations. There is a physical activity component to this course.

KIN 329 - Exercise Physiology

3 Credit(s)

This course presents an introduction and overview of the physiological bases of physical education, sport, and athletics. The effects of exercise on the various systems will be considered. Practical application of exercise science to physical fitness and athletic performance will be emphasized.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

Co-requisite(s): KIN-329L

KIN 329L - Exercise Physiology Lab

1 Credit(s)

This exercise physiology lab class is designed to supplement the exercise physiology lecture course. This course will provide students with a hands-on experience in which they can apply concepts learned in the classroom to practice in the human performance laboratory and field of exercise, fitness, and sport.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

Co-requisite(s): KIN-329

KIN 340 - Kinesiology

3 Credit(s)

This course focuses on the nature of human movement as influenced by those motor factors, anatomical factors, and mechanical principles that apply at rest and in motion.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

AND

KIN 329 Minimum Grade: C- OR T

AND

KIN 329L Minimum Grade: C- OR T

KIN 341 - Human Motor Development

3 Credit(s)

This course is designed to educate Kinesiology majors in the principles of human motor behavior and its influence on cognitive, affective, and psychomotor development throughout the lifespan. It will introduce students to factors that affect the intellectual, social, emotional, and physical development, growth and maturation of individuals relative to motor acquisition and regression.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

AND

BIOL 206 Minimum Grade: C- OR T

KIN 360 - Statistics in Kinesiology

3 Credit(s)

This course is designed to introduce students to statistical theories, data collection procedures, techniques for analysis and interpretation of data in Kinesiology.

KIN 448 - Adapted Physical Activity

3 Credit(s)

This course is designed to introduce students to legal issues and current trends in instruction and programming across a variety of adapted physical activity settings. Emphasis will be placed on developing knowledge of various disabling conditions, potential activity modifications, and placement alternatives in the physical activity setting. Instruction will focus on inclusion of individuals with special needs in the general physical education program and other physical activity settings as well as the acquisition of lifetime physical activity skills.

Prerequisite(s):

KIN 341 Minimum Grade: C- OR T
AND

BIOL 112 Minimum Grade: C- OR T

OR

BIOL 205 Minimum Grade: C- OR T

AND

BIOL 206 Minimum Grade: C- OR T

KIN 450 - Senior Capstone

3 Credit(s)

This course is designed as a culminating experience for Kinesiology majors. The focus of this High Impact Practice course will be on integrating prior knowledge, competencies, and experiences into practical applications and further professional development. Three main areas will be covered: service-learning, professional development, and personal reflection in relation to the student experience at Adams State.

Prerequisite(s):

Teacher Education Background Check Passed

Exercise Science Emphasis Courses

KIN 301 - Sport and Fitness Nutrition

3 Credit(s)

This course will present a review of basic nutrition. The course will also explore the areas of sport, exercise and fitness nutrition, supplementation, sport drug use and abuse, weight loss diets, eating disorders, weight gain nutrition, body composition, and the metabolic nutritional requirements of various sports and fitness activities.

Prerequisite(s):

KIN-329 Minimum Grade: C- OR T

AND

BIOL-112 Minimum Grade: C- OR T

OR

BIOL-205 Minimum Grade: C- OR T

KIN 302 - Sport Psychology

3 Credit(s)

Sport psychology is primarily concerned with the interaction between psychological variables and participation in sport and exercise. This course will review this interaction by addressing variables that affect the individual athlete, influence sport and exercise environments, shape group processes, enhance health and wellbeing, improve performance, and facilitate psychological growth and development in sport participants from diverse populations.

KIN 309 - Care / Prevention of Athletic Injuries

3 Credit(s)

The course will focus on the care and prevention of athletic injuries, including the evaluation, nature, types, and functions of various rehabilitation programs.

KIN 380 - Diversity, Equity Sport, and Society

3 Credit(s)

This course has a two-fold purpose: first, it is designed to provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask questions and think critically about sport as a part of society. This course will explore issues around diversity, equity and inclusion in sport and society.

KIN 422 - Exercise Evaluation and Fitness Management

3 Credit(s)

This course is designed to familiarize students with the current methods used to determine levels of fitness in apparently healthy individuals, as well as individuals from special populations. Students will learn how to prescribe exercise for these individuals based on their fitness evaluation, basic training principles and other considerations. Students will be given the opportunity to test various individuals within specific testing parameters, and apply course knowledge to practical situations.

Prerequisite(s):

KIN 329L Minimum Grade: C- OR T

KIN 427 - Coaching Tech Strength / Conditioning

3 Credit(s)

This course is designed to provide information relative to the basic foundation of coaching sports conditioning including muscle physiology, bioenergetics, training methodology, exercise technique, program design, and facility management. Students will be given the opportunity to develop a general strength coaching philosophy and to demonstrate their knowledge relative to proper lifting techniques demonstrate their knowledge relative to proper lifting and training procedures.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T

KIN 429 - Advanced Exercise Physiology

3 Credit(s)

This course involves the advanced study of the various physiological systems involved in exercise, fitness and sport. The effects of exercise on these systems will be investigated. Practical application of exercise science knowledge and research to physical fitness and athletic performance will be emphasized.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T

AND

KIN 329L Minimum Grade: C- OR T

KIN 430 - Biomechanics

3 Credit(s)

This course will involve the study of the mechanical principles and factors that influence human movement. Students will develop an understanding of the biomechanical principles to human movement.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T
AND

KIN 329L Minimum Grade: C- OR T

AND

KIN 340 Minimum Grade: C- OR T

KIN 484 - Internship in Kinesiology

3 Credit(s)

This course provides kinesiology students with an opportunity to gain direct work experience in their chosen career field. All Internships in Kinesiology must follow the relevant procedures outlined in the syllabus to be recognized as an ASU internship and to be awarded ASU credit.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T
AND

KIN 422 Minimum Grade: C- OR T

Electives (15 Hours Required)

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 112 - Introduction to Organic/Biological Chemistry

4 Credit(s)

A study of the fundamental concepts of organic chemistry and biochemistry. Will not satisfy requirements for a chemistry major, minor or pre-professional studies (pre-med etc.) The course is satisfactory for biology majors who take only one year of chemistry, and for HPPE advanced track.

Prerequisite(s):

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 112L

CHEM 112L - Introduction to Organic/Biological Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 112.

Co-requisite(s): CHEM 112

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T
OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T
OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 226 - College Physics II

5 Credit(s)

The second course of a two-semester lecture-laboratory sequence introducing the fundamental principles of physics. In the second semester, students will be introduced to the areas of electricity, electric circuits, optics, and topics in modern physics. Conceptual understanding as well as problem-solving techniques will be emphasized in the lecture. The laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture.

Prerequisite(s):

PHYS 225 Minimum Grade: C- OR T

- Or other science courses as approved by advisor

All students are required to hold a current and valid CPR, First-Aid, AED card for all upper-division courses.

Bachelor of Science in Kinesiology, Sport & Exercise Studies Emphasis

Go to: Department of Kinesiology

Complete the Following Core Courses

BIOL 112 - Human Anatomy

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure of the human body. Typically taken by HPPE students. Topics include gross anatomy, histology, the relationship between structure and function, and anatomical changes associated with disease processes. Course includes three hours of lecture and two hours of laboratory per week.

KIN 100 - Foundations of Kinesiology

3 Credit(s)

This course serves as an overview of the historical, philosophical, ethical and sociological foundations of Kinesiology. This course will be delivered with a specific emphasis on exercise science, sport management, sport psychology, and coaching. Students also will study current issues, challenges and trends as they relate to professional careers and the administration of sport, fitness, and physical education. Embedded within this course is an introduction to the key Academic Program Goals of Kinesiology.

KIN 120 - Concepts in Wellness

3 Credit(s)

In this course, students will learn about the various dimensions of wellness, assess their own health status, and design interventions to improve personal health through lecture, video, laboratory experiences, and physical activities. This course will also provide students with the information necessary to make evidence-based decisions regarding personal wellness and to understand health disparities among diverse populations. There is a physical activity component to this course.

KIN 329 - Exercise Physiology

3 Credit(s)

This course presents an introduction and overview of the physiological bases of physical education, sport, and athletics. The effects of exercise on the various systems will be considered. Practical application of exercise science to physical fitness and athletic performance will be emphasized.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

Co-requisite(s): KIN-329L

KIN 329L - Exercise Physiology Lab**1 Credit(s)**

This exercise physiology lab class is designed to supplement the exercise physiology lecture course. This course will provide students with a hands-on experience in which they can apply concepts learned in the classroom to practice in the human performance laboratory and field of exercise, fitness, and sport.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

Co-requisite(s): KIN-329

KIN 340 - Kinesiology**3 Credit(s)**

This course focuses on the nature of human movement as influenced by those motor factors, anatomical factors, and mechanical principles that apply at rest and in motion.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

AND

KIN 329 Minimum Grade: C- OR T

AND

KIN 329L Minimum Grade: C- OR T

KIN 341 - Human Motor Development**3 Credit(s)**

This course is designed to educate Kinesiology majors in the principles of human motor behavior and its influence on cognitive, affective, and psychomotor development throughout the lifespan. It will introduce students to factors that affect the intellectual, social, emotional, and physical development, growth and maturation of individuals relative to motor acquisition and regression.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

AND

BIOL 206 Minimum Grade: C- OR T

KIN 450 - Senior Capstone**3 Credit(s)**

This course is designed as a culminating experience for Kinesiology majors. The focus of this High Impact Practice course will be on integrating prior knowledge, competencies, and experiences into practical applications and further professional development. Three main areas will be covered: service-learning, professional development, and personal reflection in relation to the student experience at Adams State.

Prerequisite(s):

Teacher Education Background Check Passed

Sport & Exercise Studies Emphasis Requirements**KIN 210 - Sport Communication and Techniques****3 Credit(s)**

This course introduces students to the main skills required for sports journalism and public relations, with particular emphasis on writing and public speaking. Students will learn about the historical development and cultural significance of sport and how those have shaped the business of sport. Students will also be introduced to technologies that impact on their abilities to write and disseminate stories and on how those technologies affect the character of messaging.

KIN 301 - Sport and Fitness Nutrition**3 Credit(s)**

This course will present a review of basic nutrition. The course will also explore the areas of sport, exercise and fitness nutrition, supplementation, sport drug use and abuse, weight loss diets, eating disorders, weight gain nutrition, body composition, and the metabolic nutritional requirements of various sports and fitness activities.

Prerequisite(s):

KIN-329 Minimum Grade: C- OR T
AND

BIOL-112 Minimum Grade: C- OR T

OR

BIOL-205 Minimum Grade: C- OR T

KIN 305 - Sport Facility Management

3 Credit(s)

This course introduces students to the discipline of facility management as they relate to the sport, recreation, and leisure industries. Key topics will include planning, designing, managing, scheduling, leading, and supervising sport facilities.

Prerequisite(s):

KIN 100 Minimum Grade: C- OR T
AND

BUS 103 Minimum Grade: C- OR T

KIN 309 - Care / Prevention of Athletic Injuries

3 Credit(s)

The course will focus on the care and prevention of athletic injuries, including the evaluation, nature, types, and functions of various rehabilitation programs.

KIN 350 - Methods of Coaching

3 Credit(s)

This course is intended to provide the foundations of coaching for a person who wants to coach at the youth, elementary, high school or college level. Through a series of discussions, readings, and other projects, the potential coach will gain the knowledge and skills required to be an effective coach. This course will address the many roles and duties a coach must accept to provide positive experiences for athletes in sport.

KIN 360 - Statistics in Kinesiology

3 Credit(s)

This course is designed to introduce students to statistical theories, data collection procedures, techniques for analysis and interpretation of data in Kinesiology.

KIN 380 - Diversity, Equity Sport, and Society

3 Credit(s)

This course has a two-fold purpose: first, it is designed to provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask questions and think critically about sport as a part of society. This course will explore issues around diversity, equity and inclusion in sport and society.

KIN 422 - Exercise Evaluation and Fitness Management

3 Credit(s)

This course is designed to familiarize students with the current methods used to determine levels of fitness in apparently healthy individuals, as well as individuals from special populations. Students will learn how to prescribe exercise for these individuals based on their fitness evaluation, basic training principles and other considerations. Students will be given the opportunity to test various individuals within specific testing parameters, and apply course knowledge to practical situations.

Prerequisite(s):

KIN 329L Minimum Grade: C- OR T

KIN 427 - Coaching Tech Strength / Conditioning

3 Credit(s)

This course is designed to provide information relative to the basic foundation of coaching sports conditioning including muscle physiology, bioenergetics, training methodology, exercise technique, program design, and facility management. Students will be given the opportunity to develop a general strength coaching philosophy and to demonstrate their knowledge relative to proper lifting techniques demonstrate their knowledge relative to proper lifting and training procedures.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T

KIN 484 - Internship in Kinesiology

3 Credit(s)

This course provides kinesiology students with an opportunity to gain direct work experience in their chosen career field. All Internships in Kinesiology must follow the relevant procedures outlined in the syllabus to be recognized as an ASU internship and to be awarded ASU credit.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T

AND

KIN 422 Minimum Grade: C- OR T

- KIN XXX - Kinesiology Elective **3 Credit(s)**

Electives (22 Credits Required)

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 385 - Sports Marketing

3 Credit(s)

Illustrates the dynamic, progressive and influential nature of sports marketing. Explores the sport marketing concept as a consumer-driven, integrated, goal-oriented philosophy for a team, event, organization or athlete. Topics covered include: athletic endorsements, team sports, event sponsorships and alternative sports.

KIN 391 - Sport Ethics and Leadership

3 Credit(s)

This course explores the myriad of moral and ethical issues pertaining to athletes, sports, and sport organizations and how these apply to professionals in the field of sport management. The course will also explore leadership theories and philosophies. Current examples of ethical dilemmas in sport and sport management will be presented, and students will explore their personal ethics in relation to these issues.

KIN 429 - Advanced Exercise Physiology

3 Credit(s)

This course involves the advanced study of the various physiological systems involved in exercise, fitness and sport. The effects of exercise on these systems will be investigated. Practical application of exercise science knowledge and research to physical fitness and athletic performance will be emphasized.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T
AND

KIN 329L Minimum Grade: C- OR T

KIN 430 - Biomechanics

3 Credit(s)

This course will involve the study of the mechanical principles and factors that influence human movement. Students will develop an understanding of the biomechanical principles to human movement.

Prerequisite(s):

KIN 329 Minimum Grade: C- OR T
AND

KIN 329L Minimum Grade: C- OR T

AND

KIN 340 Minimum Grade: C- OR T

- or other courses as approved by an advisor

Bachelor of Science in Mechanical Engineering (Partnership with CSU)

Go to: Engineering and Computer Science

Earn a highly sought-after Colorado State University mechanical engineering bachelor's degree from the Adams State University campus in Alamosa, Colorado. Students in the San Luis Valley can stay close to home while learning from distinguished faculty of two universities, and benefit from access to CSU resources.

Adams State also offers an associate degree that is linked to the successful completion of the lower division courses. This is an excellent option for students interested in mechanical engineering but not yet ready to commit to a 4-year degree.

A total of 129 credits are required to complete the degree, specifically 78 lower division credits and 51 upper division credits.

12 credits of technical electives are required to graduate and will be offered face-to-face on the Adams State campus. For students with specific engineering interests, all existing 400-level technical elective courses that are taught via remote instruction are available to students who have a minimum 3.0 cumulative GPA.

Students completing the CSU-Adams State University Mechanical Engineering (ME) Partnership Program will receive a Bachelor of Science in Mechanical Engineering from CSU. All diplomas and transcripts for the degree will be from Colorado State University.

As per the requirements of the Accreditation Board for Engineering and Technology (ABET), the partnership program will apply for ABET accreditation once the first student graduates from this joint program (anticipated for Spring 2026). Given that the CSU Mechanical Engineering curriculum has been duplicated on the Adams State campus and all student learning outcomes of the partnership correspond to the CSU-Fort Collins ME program, we fully expect ABET will accredit the program once eligibility has been established.

Engineering Degree Requirements

First Year Seminar

FYS 101 - First Year Seminar

1 to 3 Credit(s)

First-year students launch into the Adams Experience through a First-Year Seminar (FYS) course. FYS will engage students by creating habits for success, learning to navigate college life, and build skills for success. Each FYS will focus on a unique topic that will be the theme of course discussions, experiences, and assignments. FYS will develop academic and social capital and support a successful transition into higher education, instill lifelong learning, and reinforce student persistence.

General Education Requirements for the Engineering Degree

Area I - Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test

scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T

OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II - Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T
AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III - Mathematics

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

Area IV - Social and Behavioral Sciences and History

One course designated as GT-SS1 (3 credits)

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

One course designated as GT-HI1 (3 credits)

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V - Natural and Physical Sciences

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

The Following Required Courses

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

Total: 62 Credits

Note for the Associate of Science, Engineering Emphasis Degree

This Associates degree plan requires only 6 credits from General Education Area IV rather than the standard 9 credits and is an exception in that regard. This exception is necessary due to the external engineering accreditation requirements by ABET which results in a bachelor's degree of 129 credits rather than the usual Colorado maximum of 120 credits. Every engineering degree in the state of Colorado has a "general education waiver" from the common GT-Pathways curriculum requirements.

Bachelor of Science in Nursing (4-year degree program)

Go to: Nursing

- The B.S.N. degree is a four-year prelicensure degree program. Upon successful completion of the degree, students are eligible to take the R.N. license exam.
- Four-year B.S.N. undergraduate students typically apply for admission with the Nursing Department at the end of their first year and enter the B.S.N. program their sophomore year.

Complete the following Supporting/General Education Courses for Nursing with a Minimum Grade of C

Complete a First-Year Seminar Course

FYS 101 - First Year Seminar

1 to 3 Credit(s)

First-year students launch into the Adams Experience through a First-Year Seminar (FYS) course. FYS will engage students by creating habits for success, learning to navigate college life, and build skills for success. Each FYS will focus on a unique topic that will be the theme of course discussions, experiences, and assignments. FYS will develop academic and social capital and support a successful transition into higher education, instill lifelong learning, and reinforce student persistence.

Complete all Courses

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 205 - Human Anatomy and Physiology I

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The integumentary, skeletal, muscular, and nervous systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Test - Minimum Score: 3 **OR** MATH 97 Minimum Grade: S or S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T and SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18 **OR** ENG 96 Minimum Grade: S or T

BIOL 206 - Human Anatomy and Physiology II

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The digestive, respiratory, circulatory, urinary, endocrine, and reproductive systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL 205 Minimum Grade: C- or T

OR

BIOL 210 Minimum Grade: C- or T

BIOL 215 - Microbiology for Health Sciences**4 Credit(s)**

A lecture/laboratory course designed to fulfill requirements for pre-nursing and pre-pharmacy students as a practical introduction to microorganisms, especially bacteria and viruses, and their contribution to human health and disease. Laboratory exercises are designed to provide experience in handling microorganisms, bacterial identification, and other basic principles of microbiology. This course will not fulfill requirements for any of the biology degree tracks. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL-205 Minimum Grade: C- OR T

AND

CHEM-105 Minimum Grade: C- OR T

AND

CHEM-105L Minimum Grade: C- OR T

OR

CHEM-111 Minimum Grade: T OR C-

AND

CHEM-111L Minimum Grade: T OR C-

OR

BIOL-209 Minimum Grade: C- OR T

AND

BIOL-210 Minimum Grade: C- OR T

CHEM 111 - Introductory Chemistry GT-SC1**4 Credit(s)**

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement

Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T

OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

PSYC 233 - Lifespan Dev for Nurses

3 Credit(s)

This is a foundational course for nursing students in human growth and development. The goal of this course is to examine the interaction of heredity and environment on biological, cognitive, and social development from conception to death.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

Complete 1 of the Following Statistics Courses

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T
OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

PSYC 211 - Introduction to Statistics Lecture/Lab

4 Credit(s)

In this course, students will develop a working appreciation of statistical concepts and applications as employed in the behavioral sciences. The course presents descriptive and inferential statistics and their applications. The laboratory component of this course gives students an opportunity to develop skills in using statistical software.

Prerequisite(s):

PSYC 101 Minimum Grade: C- or T

AND

MATH 97 Minimum Grade: S-A or S-B or S-C or T

OR

MATH 99 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 121 Minimum Grade: C- or T

OR

MATH 140 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Complete 1 of the following Arts and Humanities Courses (GT-AH1, GT-AH2, or GT-AH3)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the

present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Complete 1 of the following History Courses (GT-HI1)

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an

understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Complete 1 of the following Mathematics Courses (GT-MA1)

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T
OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

Completion of Required Nursing Courses

NURS 201 - Math for Nursing

1 Credit(s)

This course is designed to assist the student with becoming very comfortable with drug calculations using dimensional analysis. Topics to be discussed include: basic math review, metric system and medication calculations, reconstituted medications, parenteral medication calculations, reconstituted medications, parental medication calculations, oral and injectable calculations, and medications for infants and children. Student must be enrolled in the ASU four year baccalaureate program and successful completion of all previous level courses.

NURS 202 - Nursing Informatics

1 Credit(s)

This course examines the history of healthcare informatics, current issues, basic informatics concepts and health information management systems. The use of technology to help make decisions and to improve the health status of the individual, family, and community will be emphasized. Students will apply informatics concepts to a current clinical practice setting suggesting methods to use technology to improve patient safety and work effectiveness. The student will also learn to identify gather, process, and manage information/data. Student must be enrolled in the ASU four-year baccalaureate program and successful completion of all previous level courses.

NURS 206 - Pathophysiology

4 Credit(s)

This course provides an overview of pathophysiological processes across the major organ systems. It is divided into two content areas: general concepts and specific disease processes. General concepts include the topics of cellular environment, genetics, stress and disease, immunity, inflammation, and cellular proliferation. Common disease processes from the major organs systems are presented. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 207 - Health Assessment

3 Credit(s)

The course will focus on the theoretical and practical aspects of acquiring data through a client health history and

physical examination through the life span. A laboratory portion will consist of demonstration and actual wellness assessment with identification of needs. Students will be responsible for independent clinical health assessments and case studies. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 208 - Pharmacology

4 Credit(s)

The course will provide an in-depth perspective of the pharmacokinetics and pharmacodynamics of medications. The students will learn to consider body weight, age, body composition, and circulatory dynamics when analyzing the drug's effect. Other topics to be included in this course include therapeutic effects, side effects, toxic effects, idiosyncratic reactions, drug tolerance, drug interactions and drug dose response. Discussion will focus on the physiological action and effect of selected drug groups, and factors that will influence the drug actions such as physiological variables, environmental conditions, psychological factors and diet. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 211 - Professional Practice

2 Credit(s)

This course will emphasize an in-depth exploration of the development of health care policy in the United States. The evolution of public and private healthcare insurance and the societal implications of these policies will be analyzed. Students will understand the U.S. healthcare delivery system to determine how social, political, legal, economic policy and regulatory factors affect health disparities. Access to healthcare for the American people will be addressed. Critical thinking skills will be developed to understand future trends and changes affecting healthcare delivery policy and nursing practice. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 309 - Nursing Fundamentals

6 Credit(s)

This course will focus on the nursing process as a strategy for making clinical judgments and implementing care. The student will learn basic concepts in nursing as a framework for future course work. An emphasis will be placed on critical thinking and evidence based application of concepts taught. The lab hours will focus on concepts learned and are the foundation for developing nursing skills. Practice will take place in both the classroom and the simulation lab. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 309C - Nursing Fundamentals Clinical

3 Credit(s)

This course focuses on concepts learned in Nursing Fundamentals and Nursing Fundamentals Lab as a strategy for making clinical judgments and implementing care. Practice will take place in both the actual clinical setting and the simulation lab. The student will learn basic concepts in nursing as a framework for future course work. An emphasis will be placed on critical thinking and evidence based application of concepts taught. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 310 - Medical Surgical Nursing I

4 Credit(s)

Emphasis in this course is on the transition from student to the professional nursing role of the Baccalaureate prepared nurse. This course is a comprehensive study of concepts related to critical thinking, culture, pain and end of life issues. Also considered is substance abuse, fluid, electrolyte and acid-base balance, safety, oxygenation, tissue perfusion, cardiac output. The various interrelationships among systems are highlighted. The application of the nursing process and evidence based criteria will be used in the care of stable adult patients in a clinical setting. The lab hours will focus on concepts learned and are the foundation for developing advanced nursing skills. Practice will take place in both the classroom and the simulation lab. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 310C - Medical / Surgical Nursing I Clinical

4 Credit(s)

Emphasis in this course is on the transition from student to the professional nursing role of the Baccalaureate prepared nurse. This course focuses on concepts learned in Medical Surgical Nursing I as a strategy for making clinical judgments and implementing care. Practice will take place in both the actual clinical setting and the simulation lab. The student will learn basic concepts in nursing as a framework for future course work. An emphasis will be placed on critical thinking and evidence based application of concepts taught. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 311 - Care of the Older Adult

2 Credit(s)

This course will consider the unique set of principles and body of knowledge and skills necessary to care for the older adult. Students are provided with the theoretical background necessary to understand health system issues affecting older adults; comprehensive assessment of physical, functional, psychosocial, and cognitive capacities; and to consider, in detail, common problems associated with cardiovascular, respiratory, neurological, musculoskeletal, sensory, and genitourinary systems that affect older adults. In addition, principles of continuity of care, rehabilitation, nutritional and pharmacodynamic changes, diversity and ethics will be integrated throughout the course. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 314 - Health Care Ethics

2 Credit(s)

This course will focus on the moral and ethical dimensions of nursing practice and in health care today. Topics to be explored include biomedical technological advances, quality of life, and ethical theories and principles, client advocacy, skill competency, informed consents, advanced directives and nursing accountability. The students will also discuss how values, emotions, faith, spiritual beliefs influence ethical decision-making. The law, culture, gender, generational issues, as well as male and female roles are considered in the setting of an ethical dilemma. A systematic approach to resolving ethical issues and the role of an Ethics Committee as a resource are presented. Discussion will also take place regarding the Nursing Code of Ethics and its effect on nursing practice. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 315 - Rural/Community Health

2 Credit(s)

This course examines the role of the nurse in promoting the health of aggregates, families, and individuals. The concept

of community as client is emphasized. The core public health functions of assessment, policy development, and assurance are explored through student involvement in the legislative process, family assessment, community assessment, case management, health teaching, and the investigation of communicable diseases. The provision of nursing care in a rural setting will also be examined.

NURS 315C - Rural / Community Health Clinical

2 Credit(s)

This course will allow students to address the concerns and health needs of the community. In a collaborative effort between the community and ASU, the students will apply knowledge gained through nursing academic coursework to implement a plan for those health concerns. Emphasis will be placed on developing interpersonal skills and achieving social changes that influence health and quality of life. The course includes an extensive clinical practicum within a public health setting with emphasis on nursing in a rural community.

NURS 316 - Nursing Research

2 Credit(s)

This course will provide an introduction to the research process including design and methodology. Interpretation and critique of research findings for use in nursing practice are emphasized. Research questions relevant to clinical practice are identified. This course emphasizes critical analysis of existing research to support data-driven decisions and implementation of evidence-based practice. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 407 - Obstetric Nursing

3 Credit(s)

This course will provide a family-centered approach to professional nursing practice of the childbearing family from pre-conception through postpartum including newborn care. Nursing care of the woman throughout the lifespan will be presented. The impact of psychosocial and cultural values and practices will be explored. Legal and ethical accountability will be integrated throughout the course. The learner will develop specific cognitive and psychomotor competencies which will be demonstrated in an effective performance in both a skills/simulation lab and clinical area. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 407C - Obstetric Nursing Clinical

2 Credit(s)

Emphasis in this course will be on the transition from student to the professional nursing role of the Baccalaureate prepared nurse. This course is the application of skills related to caring for obstetrical and gynecological patients. Critical thinking skills will be learned and applied to visualizing complex problems and interrelationships found in the care of obstetrical and gynecological patients in a clinical setting. The application of the nursing process and evidence based criteria will be used in this process. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 408C - Pediatric Nursing Clinical

2 Credit(s)

This course will apply skills related to caring for pediatric patients across the health continuum. Critical thinking skills will be learned and applied to complex problems and interrelationships found in the care of pediatric patients in the clinical setting. The application of nursing process and evidence based criteria will be used in this process. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 409 - Psychiatric Nursing

2 Credit(s)

The student will explore concepts in promoting and maintaining mental health in the individual, family, group and the community. Mental health assessment, health promotion and roles and responsibilities within the profession of psychiatric nursing will be introduced. This course emphasizes communication and caring through the application of communication skills, the therapeutic relationship and nursing process in the care and treatment of common clinical conditions/disorders in the realm of mental health nursing. The interconnection of medical and mental health symptoms will be addressed. Health care trends related to primary health care, determinants of health and wellness are examined. Concepts of crisis, comfort, anger, hope, loss, power, resiliency and integrity will be introduced. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 409C - Psychiatric Nursing Clinical

2 Credit(s)

This course will allow the student to apply the various concepts learned in NURS-409 and other nursing courses to patients in both acute psychiatric settings and various community settings. Students will incorporate critical thinking, the nursing process and evidence based guidelines for the care of the psychiatric patient. Health and safety needs within the psychiatric setting will be explored. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 414C - Nursing Internship

6 Credit(s)

This course will be an integration of previous nursing and general education coursework. This course will include an intensive content exam review and field experience in an area of nursing interest to the student and comprehensive simulation lab experiences at the end of the course. Critical thinking and evidence based practice will be emphasized and evaluated through theory course content review tests and in the clinical environment by a preceptor. In addition, the simulation environment may be used as a part of evaluation. Students must be enrolled in the ASU four-year baccalaureate nursing program and successfully complete all previous level courses.

NURS 415 - Nursing Management

3 Credit(s)

The focus of this course will be on the theories of nursing management and leadership and their application to work practices. Content will include the basic functions of management: planning, organizing, and directing. Topics such as decision-making, change, budgeting, conflict resolution and personnel issues will be explored. The students will concentrate on critical decision making and formulating independent nursing judgments in complex nursing situations. Content will also focus on supervisory skills and collaboration with other members of the health care team in the

structured (hospital or nursing home) or unstructured (community assessments) health care settings. Students must be enrolled in the ASU four year baccalaureate nursing program and successfully complete all previous level courses.

NURS 415C - Nursing Management Clinical

2 Credit(s)

Application of nursing leadership and management principles learned in NURS-415 will be the focus of this course. Application of concepts learned take place in the clinical setting. Critical thinking and evidence based practice will be emphasized.

NURS 416 - Medical Surgical Nursing II

4 Credit(s)

This course is a comprehensive study of concepts related to problems of the cardiovascular, peripheral vascular, respiratory, hematological, and endocrine systems. Various interrelationships of these concepts will be explored as it concerns stable and unstable adult patients. The application of the nursing process and evidence based criteria will be presented as these processes refer to the care of adult patients. The lab hours will focus on concepts learned and are the foundation for developing advanced nursing skills. Practice will take place both in the classroom and the simulation lab.

NURS 416C - Medical /Surgical Nursing II Clinical

4 Credit(s)

In this course, concepts related to problems of the cardiovascular, peripheral vascular, respiratory, hematological, and endocrine systems will be explored. The various interrelationships among these concepts found in both stable and unstable adult patients in a clinical setting will be emphasized. The application of the nursing process and evidence based criteria will be used in the care of adult patients in both a clinical setting and a simulation lab.

NURS 417A - Service Learning A

0.5 Credit(s)

The Service Learning project will provide the student with a unique opportunity to further develop the nursing role as a responsible and caring professional. In providing service to an agency or aggregate of clients, the ASU nursing student will apply and integrate concepts learned from previous coursework in the arts, sciences, humanities, and nursing in meaningful ways. The Service Learning project will enhance the ASU Nursing Program mission with its focus on cultural diversity, community service, and rural health care. This course introduces the student to community collaboration and selection of a service project.

NURS 417B - Service Learning B

0.5 Credit(s)

The Service Learning project will provide the student with a unique opportunity to further develop the nursing role as a responsible and caring professional. In providing service to an agency or aggregate of clients, the ASU nursing student will apply and integrate concepts learned from previous coursework in the arts, sciences, humanities, and nursing in meaningful ways. The Service Learning project will enhance the ASU Nursing Program mission with its focus on cultural diversity, community service, and rural health care. This course is an ongoing course from NURS 417A. This

course will continue the project development established in NURS 417A. The student will research the importance and effectiveness of project selected in the identified community/agency.

Prerequisite(s):

NURS 417A Minimum Grade: C

NURS 417C - Service Learning C

1 Credit(s)

The Service Learning project will provide the student with a unique opportunity to further develop the nursing role as a responsible and caring professional. In providing service to an agency or aggregate of clients, the ASU nursing student will apply and integrate concepts learned from previous coursework in the arts, sciences, humanities, and nursing in meaningful ways. The Service Learning project will enhance the ASU Nursing Program mission with its focus on cultural diversity, community service, and rural health care. The student will use research and supportive evidence gathered in NURS 417B to implement the selected service project. The result of this project will result in a sustained impact for the selected agency or community. In addition, the student will provide a reflection of this experience from project identification, research, development and implementation.

Prerequisite(s):

NURS 417A Minimum Grade: C

AND

NURS 417B Minimum Grade: C

Bachelors of Arts in Interdisciplinary Studies in Mechanical Engineering

The Bachelors of Arts in Interdisciplinary Studies in Mechanical Engineering is designed exclusively for student athletes who intend to pursue a degree in Mechanical Engineering through the Adams State partnership program with Colorado State University Fort Collins.

Students will be advised into either the 4-year or 5-year plan depending on Math placement and athletic eligibility. The coursework in this program is identical to that of the BS in Engineering, although courses are completed in a different sequence allowing student athletes to remain eligible to compete for Adams State throughout their time in the program.

Student athletes interested in transferring to Colorado State to complete the BS in Mechanical Engineering degree should complete the courses listed on the semester by semester plan provided by their advisor. Students are encouraged to work very closely with their advisor.

Engineering Degree Requirements

First Year Seminar

FYS 101 - First Year Seminar

1 to 3 Credit(s)

First-year students launch into the Adams Experience through a First-Year Seminar (FYS) course. FYS will engage students by creating habits for success, learning to navigate college life, and build skills for success. Each FYS will

focus on a unique topic that will be the theme of course discussions, experiences, and assignments. FYS will develop academic and social capital and support a successful transition into higher education, instill lifelong learning, and reinforce student persistence.

General Education Requirements for the Engineering Degree

Area I - Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T

OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II - Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III - Mathematics

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

Area IV - Social and Behavioral Sciences and History

One course designated as GT-SS1 (3 credits)

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

One course designated as GT-HI1 (3 credits)

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V - Natural and Physical Sciences

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

The Following Required Courses

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

PHYS 232 - Gen Physics II (Cal) GT-SC1**4 Credit(s)**

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1**1 Credit(s)**

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

Additional Mathematics Courses**MATH 220 - Calculus III****4 Credit(s)**

This course is an introduction to the calculus of functions of several variables. Typical topics include three-dimensional analytic geometry, vectors, parametric curves and surfaces, arc length and curvature, limits, continuity, partial derivatives, gradients, directional derivatives, tangent planes, multiple integrals, vector fields, line and surface integrals, Green's theorem, Stokes' Theorem, and the divergence theorem.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 327 - Differential Equations

3 Credit(s)

An introduction to the study and application of ordinary differential equations. Typical topics include first order differential equations, linear differential equations, systems of equations, existence and uniqueness of solutions, bifurcations, the Laplace transform, matrix methods, and stability theorems.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

Colorado State University Engineering Courses (21 credits)

Find out more about these courses by using Colorado State's Online Catalog

- MECH 307 Mechatronics and Measurement
- MECH 324 Dynamics of Machines
- MECH 337 Thermodynamics
- MECH 342 Fluid Mechanics for Mechanical Engineers
- MECH 344 Heat and Mass Transfer
- MECH 325 Machine Design

Required Courses for the 4 Year Plan

- 1 elective course in Mathematics
- 21 general elective credits
- 21 upper division elective credits

Required Courses for the 5 Year Plan

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

- 16 general elective credits
- 21 upper division elective credits

General Business Certificate

Go to: Business

Courses (16 credit hours)

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 179 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

Health Administration Certificate (Undergraduate)

Go to: Business

Courses (16 credits total)

HCA 303 - Trends and Issues in Health Care

3 Credit(s)

This course is an introductory Health Care Administration course and will expose the student to the industry and its significant elements and trends of the current health care environment.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

HCA 311 - Health Care Law and Ethics

3 Credit(s)

This course presents an overview of the legal and ethical issues faced by health care consumers, practitioners, and administrators. The course will introduce students to the legal aspects of health care at the federal, state, and local levels. Topics covered will include criminal and civil claims against health care providers, corporate and individual liability, and legal and ethical decision-making, individual liability, and legal and ethical decision-making. HCA 361 Health Care Administration. Instructor permission.

Prerequisite(s):

BUS 211 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

HCA 325 - Health Care Informatics

3 Credit(s)

This course is a study of record keeping practices in the hospital and physician's office. Emphasis is placed in hospital and medical staff organization, patient record content, procedures in filing, numbering and retention of patient records, quantitative analysis, release of patient information, forms control and design, indexes and registers, reimbursement, regulatory and accrediting agencies, and alternate health care delivery systems. Instructor permission required.

Prerequisite(s):

BUS 120 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

HCA 363 - Health Care Finance

3 Credit(s)

This course is devoted to the practical aspects of finance in health care, an examination of current practices in financial management of health care organizations, and managerial applications to specific problems facing health care managers. The first part of the course will focus on an overview of health care finance, managerial accounting, and financial analysis. The second part will continue with managerial accounting and financial analysis and will concentrate on the various tools used in financial management. Emphasis is placed on unique issues and concerns that result from the regulatory framework of health care organizations. At the conclusion of this course, the student should be able to discuss the financial structure, market forces, controls and techniques used in the health care management field, be able to read and analyze financial statements and budgets and have the skill to interpret financial and operating performance.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

HCA 402 - Public and Population Health

3 Credit(s)

This course consists of an examination of epidemiological concepts and methods of studying the distribution and determinants of morbidity and mortality in human population. The knowledge and skills acquired should enable one to understand and critically review scientific literature dealing with epidemiology concepts and measures. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

BUS 179 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

Master of Arts in Music Education

Go to: Music

The Master of Arts in Music Education degree furthers Adams State University's mission by providing educational opportunities for K-12 teachers to earn a master's degree in music education at a reasonable cost. The Music Education master's program furthers students' musical and professional growth, enhances the success of the students they serve, and provides graduate coursework necessary for additional salary credit. The degree offers two tracks, using the cohort model. For the first track, all courses are delivered online. The second track is a combined online/on-campus program. Students in this track enroll in the same online core and supporting courses as the first track. Students in the second track choose an area of concentration in performance, composition, or conducting, in lieu of electives. These courses are delivered face-to-face and require a two semester residency in addition to the summer residency at the beginning of the degree program.

Admission Requirements

Degree Requirements

- Minimum degree requirements are 30 hours.
- Students must maintain a cumulative GPA of at least 3.0 throughout the degree.

All candidates for a master's degree in music education must meet graduation requirements as set forth in the Adams State University Academic Catalog.

Music Education Online Track

Course Requirements (minimum 30 credits)

Required Core

MUED 565 - Introduction to Music Ed Research

3 Credit(s)

This course serves as an introduction to research methodologies used in music and music education. It provides a broad foundation in research design, including quantitative, qualitative, historical, philosophical and non-experimental models. In addition, students familiarize themselves with basic statistical concepts, the library, and standard reference tools and electronic resources for the purpose of research.

MUED 567 - Music Ed History and Philosophy

3 Credit(s)

This course will address the historical and philosophical foundations of music education in the United States, with a focus on aesthetics and the role of the arts in education. Students will formulate a personal philosophy of music education to guide choices in curriculum, teaching, and assessment.

MUED 568 - Sociology and Psychology of Music Education

3 Credit(s)

This course will address the sociological and psychological foundations of music education in the United States focusing on relationships to current trends and best practices.

MUED 596 - Music Education Curriculum Project

3 Credit(s)

This course will address the curriculum and assessment in music education culminating in a curriculum project to be put into practice in the classroom.

Supportive Studies

MUED 503 - Analytical Techniques

3 Credit(s)

This course will examine the principle forms and structural elements of music from the Renaissance through the twentieth century. This course will introduce students to a variety of approaches and philosophies of musical analysis, accomplished through listening and analysis of musical repertoire.

MUED 504 - Orchestration and Arranging

3 Credit(s)

This course will provide instruction in music orchestration and arranging techniques pertinent to music educators. Students will apply these techniques to arrangements for voice and contemporary band/orchestral instruments and ensembles.

MUED 534 - Music Literature and Pedagogy

3 Credit(s)

A study of choral and instrumental literature, pedagogical techniques, and rehearsal techniques appropriate for school ensembles. The course explores resource materials, pedagogical practice, and effective teaching strategies.

Additional Supportive Studies

MUED 521 - World Music and Culture

3 Credit(s)

This course will provide the conceptual foundations necessary to explore and integrate music from around the world into the K-12 music curriculum. Through case study, critical writing, audio and video example, and individual research, students will investigate, experience, and synthesize the importance of music as it relates to different cultures, customs, religions, and history. Students will learn how music is correlated to everyday activities in a variety of societies.

MUED 523 - Topics in Jazz and Rock

3 Credit(s)

This course will examine the development and principle styles in jazz and rock music in the 20th and 21st centuries. The course will look at the important developments in both styles through musical, historical, and cultural lenses. The goal of this course is to go beyond a broad overview of these styles, with students doing in-depth listening to seminal albums in both jazz and rock.

MUED 533 - American Music History

3 Credit(s)

This course is designed as a survey of the development of music in the current United States, from the Spanish colonization in the 16th century to present times. Topics addressed will include the various musical styles and genres, composers of the period and their compositions. Emphasis will be placed on developing a thorough knowledge of music literature of the time, being able to place this music in its proper historical and cultural context, as well as being able to incorporate it into the K-12 curriculum.

Music Education Online/On-campus Track with Concentrations In

- Composition
- Conducting
- Performing

Course Requirements (Minimum 30 Credits)

Required Core

MUED 565 - Introduction to Music Ed Research

3 Credit(s)

This course serves as an introduction to research methodologies used in music and music education. It provides a broad foundation in research design, including quantitative, qualitative, historical, philosophical and non-experimental models. In addition, students familiarize themselves with basic statistical concepts, the library, and standard reference tools and electronic resources for the purpose of research.

MUED 567 - Music Ed History and Philosophy

3 Credit(s)

This course will address the historical and philosophical foundations of music education in the United States, with a focus on aesthetics and the role of the arts in education. Students will formulate a personal philosophy of music education to guide choices in curriculum, teaching, and assessment.

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MUED 534 - Music Literature and Pedagogy

3 Credit(s)

A study of choral and instrumental literature, pedagogical techniques, and rehearsal techniques appropriate for school ensembles. The course explores resource materials, pedagogical practice, and effective teaching strategies.

Area of Concentration

MUED 540 - Applied Lessons

2 Credit(s)

This course is required for the combined online/on-campus track of the Master of Arts in Music Education.

MUED 541 - Applied Lessons

2 Credit(s)

This course is required for the combined online/on-campus track of the Master of Arts in Music Education.

MUED 595 - Graduate Recital

1 Credit(s)

Preparation and presentation of a public recital of approximately 60 minutes of prepared music.

Co-requisite(s): MUED 541

Small Ensemble

(2 credits total-courses may be repeated)

MUED 546 - Jazz Ensemble

1 Credit(s)

An advanced instrumental jazz ensemble, open by audition. Repertoire is selected from a variety of jazz styles and periods.

OR

MUED 548 - Jazz Singers

1 Credit(s)

An advanced vocal jazz ensemble, open by audition to students who will be expected to perform a significant leadership role in the ensemble. Repertoire is selected from a variety of jazz and popular styles and periods.

OR

MUED 549 - Chamber Ensemble

1 Credit(s)

Selected groups including instrumental, vocal, and mixed ensembles for performance of music in specific periods and mediums.

OR

Large Ensemble

(2 credits total-courses may be repeated)

MUED 545 - Band

1 Credit(s)

Open to all students regardless of major field who demonstrate sufficient ability on a standard wind or percussion instrument.

OR

MUED 547 - Concert Choir

1 Credit(s)

Open to all qualified students with repertoire selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions.

OR

MUED 550 - Orchestra

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard orchestral instrument.

Note:

An on-campus residency during the first two semesters of the program is required for completion of courses in the concentration area. Please contact Dr. Matthew Schildt (mschildt@adams.edu) with any questions.

Master of Business Administration, Finance Emphasis

Master of Business Administration

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The online M.B.A. curriculum is well suited for people with either business or non-business undergraduate degrees. You'll spend six continuous semesters, or two years, learning key business, health administration, leadership, and public administration concepts to make you more effective in your current job or to open new employment opportunities.

The online M.B.A. curriculum offers a level of quality and rigor consistent with Adams State's reputation for excellence as an educational institution. The distance M.B.A. program welcomes students from around the globe.

Master of Business Administration Core Requirements

BUS 500 - Leadership Skills for Managers

3 Credit(s)

This course teaches practical skills required for effective management at all levels of an organization, and is designed to increase a learner's understanding of key concepts and procedural guidelines related to organizational management, human resource, and leadership. The purpose is to be equipped to deal effectively with managerial challenges dealing with people.

BUS 505 - Creating Consumer Value

3 Credit(s)

This course presents learners with a comprehensive approach to creating consumer value. This includes marketing and brand management in for-profit firms as well as identifying and meeting consumer needs in non-profit and governmental organizations. Topics include segmentation and targeting of consumers; the positioning levers of product, price, promotion, and distribution; and brand management.

ECON 505 - Managerial Economics

3 Credit(s)

This course demonstrates how economics theory is applied to national and international managerial decision-making. The course covers topics such as demand analysis, production and cost functions, market structure, managerial understanding of public policy, and international trade finance topics. Pre-req.-Undergraduate Economics course with a grade of C or higher.

BUS 520 - Managerial Accounting

3 Credit(s)

This course provides a review of financial reporting standards and statements and analysis of those financial statements. Managerial accounting principles will be explored as well as budgeting, cost allocation, accumulation, cost behavior, and relevant costs; revenues are approached from a managers' perspective. Prerequisite: undergraduate accounting course with a grade of C or higher.

BUS 525 - Financial Analysis

3 Credit(s)

Students will embark on studying basic financial principles and enhance that with understanding various valuation concepts and methods. Emphasis is also placed on capital budgeting and long term financing as well as working capital management. The course will blend time-tested finance principles and the latest advancements with the practical perspectives of the financial manager. Prerequisite: undergraduate accounting course with a grade of C or higher.

Prerequisite(s):

BUS 520 Minimum Grade: C

BUS 540 - Strategy**3 Credit(s)**

In this course, learners examine tools and techniques for competitive analysis, strategic planning, and strategy implementation. Learners gain knowledge of the tools and concepts needed to develop a business strategy including macro environmental scanning, industry and competitive analysis, value chain analysis, SWOT analysis, identification of critical success factors and driving forces, and development of strategic alternatives and recommendations.

Finance Emphasis**BUS 531 - Multinational Financial Management****3 Credit(s)**

Multinational Financial Management course has two emphases: one on the basics and the other on a managerial perspective. As international capital markets of the world become more integrated, an understanding of international financial management has become important for U.S. corporate decision making. This course provides students with groundwork for analysis that will serve them well in their future careers. The decision-making process in this course will teach students how to make knowledgeable managerial decisions in an ever changing global financial setting.

Prerequisite(s):

BUS 525 Minimum Grade: B-

BUS 532 - Portfolio Management and Investment Analysis**3 Credit(s)**

The unifying theme of this course is that security markets are almost efficient, meaning that most securities are priced appropriately given their risk and return attributes. The course is a blend of practical and theoretical coverage combined with a complete digital solution to focus on making investment decisions from the perspective of the portfolio manager. This course also covers the Series 7 License and is designed to prepare the student for taking the National Association of Securities Dealers General Securities Representative Exam.

Prerequisite(s):

BUS 525 Minimum Grade: B-

BUS 533 - Financial Markets and Institutions**3 Credit(s)**

This course is a great reflection of the latest developments from the field of financial markets. It helps students understand why financial markets exist, how financial institutions serve these markets, and what services those institutions offer. The course also focuses on the management, performance, and regulatory aspects of financial institutions and explores the functions of the Federal Reserve System, as well as the major debt and equity security markets, and derivative security market.

Prerequisite(s):

BUS 525 Minimum Grade: B-

BUS 534 - Finance Capstone**3 Credit(s)**

This course uses a case study approach to solve complicated corporate problems and links managerial decisions to capital markets and the expectations of investors. Students will gain a deeper understanding of financial issues that they encounter in their professional career. At the core of the cases is a valuation task that requires students to look to financial markets for guidance in resolving the case problem. The focus on value helps the students understand the impact of the firm on the world around it.

Prerequisite(s):

BUS 525 Minimum Grade: B-
AND

BUS 531 Minimum Grade: B-

AND

BUS 532 Minimum Grade: B-

AND

BUS 533 Minimum Grade: B-

Master of Business Administration, Healthcare Emphasis

Go to: [Business](#)

Master of Business Administration

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The online M.B.A. curriculum is well suited for people with either business or non-business undergraduate degrees. You'll spend six continuous semesters, or two years, learning key business, health administration, leadership, and public administration concepts to make you more effective in your current job or to open new employment opportunities.

The online M.B.A. curriculum offers a level of quality and rigor consistent with Adams State's reputation for excellence as an educational institution. The distance M.B.A. program welcomes students from around the globe.

Master of Business Administration Core Requirements**BUS 500 - Leadership Skills for Managers**

3 Credit(s)

This course teaches practical skills required for effective management at all levels of an organization, and is designed to increase a learner's understanding of key concepts and procedural guidelines related to organizational management, human resource, and leadership. The purpose is to be equipped to deal effectively with managerial challenges dealing with people.

BUS 505 - Creating Consumer Value

3 Credit(s)

This course presents learners with a comprehensive approach to creating consumer value. This includes marketing and brand management in for-profit firms as well as identifying and meeting consumer needs in non-profit and governmental organizations. Topics include segmentation and targeting of consumers; the positioning levers of product, price, promotion, and distribution; and brand management.

ECON 505 - Managerial Economics

3 Credit(s)

This course demonstrates how economics theory is applied to national and international managerial decision-making. The course covers topics such as demand analysis, production and cost functions, market structure, managerial understanding of public policy, and international trade finance topics. Pre-req.-Undergraduate Economics course with a grade of C or higher.

BUS 520 - Managerial Accounting

3 Credit(s)

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BUS 525 - Financial Analysis

3 Credit(s)

Students will embark on studying basic financial principles and enhance that with understanding various valuation concepts and methods. Emphasis is also placed on capital budgeting and long term financing as well as working capital management. The course will blend time-tested finance principles and the latest advancements with the practical perspectives of the financial manager. Prerequisite: undergraduate accounting course with a grade of C or higher.

Prerequisite(s):

BUS 520 Minimum Grade: C

BUS 540 - Strategy

3 Credit(s)

In this course, learners examine tools and techniques for competitive analysis, strategic planning, and strategy

implementation. Learners gain knowledge of the tools and concepts needed to develop a business strategy including macro environmental scanning, industry and competitive analysis, value chain analysis, SWOT analysis, identification of critical success factors and driving forces, and development of strategic alternatives and recommendations.

Healthcare Emphasis

HCA 545 - Public Health

3 Credit(s)

This course provides a comprehensive coverage of traditional public health responsibilities- assessing the burden of disease, preventing and controlling health threats, and developing policies and public administration responses to improve health --in a contemporary framework. It covers the basics of administration, including public health law, human resources management, budgeting and financing, and legislative relations in public health.

HCA 550 - Elderly and Managed Care

3 Credit(s)

This course will consider long-term service delivery programs designed to meet the special needs of seniors. The course will include a managerial overview of seniors' housing and care and will analyze the demographics of aging, the role of financing, and the evolving marketplace.

HCA 555 - Health Policy

3 Credit(s)

Critical analysis of federal and state health policy processes, outcomes, and issues. This course allows students to examine the efficiency and effectiveness of health policy issues associated with access, cost, and quality. Emphasis is placed on policy formulation, implementation, assessment, and modification.

Prerequisite(s):

HCA 303 Minimum Grade: C

HCA 590 - Practicum

3 Credit(s)

The MHA Practicum: executive skill development is designed to develop and enhance the skills necessary for success as a healthcare executive through management practice in health care administration. The course provides the students the opportunity to gain practical experience and integrate classroom knowledge and theory in an administrative setting within the health care industry.

OR

HCA 595 - HCA Thesis

3 Credit(s)

The research project serves as a capstone experience as students complete the MBA emphasis area of study. Students will complete a research project involving an introduction to the problem or research question, comprehensive in-depth

review of the current literature, research methodology, data collection, and analysis if applicable, and conclusions.

Prerequisite(s):

BUS 515 Minimum Grade: C

Master of Business Administration, Leadership Emphasis

Master of Business Administration

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Leadership Emphasis

BUS 545 - Leading Entrepreneurial Organizations

3 Credit(s)

Successful organizations emphasize learning to sustain their competitive advantage. This course will study entrepreneurship and intrapreneurship. Areas of emphasis include uncovering the methodologies and characteristics that foster innovations and achieve meaningful change in business that leads to the creation and implementation of profitable business opportunities.

BUS 550 - Technology and Innovation

3 Credit(s)

This course adopts the perspective of a general manager-- an individual charged with diagnosing complex situations and resolving them in ways that enhance organizational performance. The course emphasizes how general management decisions may contribute to the creation and appropriation of economic value through innovation.

BUS 555 - Leading for Results

3 Credit(s)

This course focuses on how leaders mobilize others within their organization to get extraordinary things done. You will analyze what characteristics you need to develop to achieve your own professional goals and reflect on ways you can develop your competencies as a leader.

BUS 560 - Leadership Capstone

3 Credit(s)

This capstone course integrates knowledge gained in the previous graduate business courses. It centers on the theme that organizations achieve sustained success when their managers have astute, timely, strategic game plans, and they implement these plans with proficiency. This class incorporates the "big picture" and cuts across the whole spectrum of business and leadership.

Master of Business Administration, Public Administration Emphasis

Master of Business Administration

Online delivery allows today's busy working professional the opportunity to participate in a program without putting your career on hold. Whether you travel extensively, have a job that prevents you from attending traditional on-campus classes, or have family obligations that limit your available time, the flexibility of online delivery brings the Adams State University M.B.A. program to you, on your schedule.

The online M.B.A. curriculum is well suited for people with either business or non-business undergraduate degrees. You'll spend six continuous semesters, or two years, learning key business, health administration, leadership, and public administration concepts to make you more effective in your current job or to open new employment opportunities.

The online M.B.A. curriculum offers a level of quality and rigor consistent with Adams State's reputation for excellence as an educational institution. The distance M.B.A. program welcomes students from around the globe.

Master of Business Administration Core Requirements

BUS 500 - Leadership Skills for Managers

3 Credit(s)

This course teaches practical skills required for effective management at all levels of an organization, and is designed to increase a learner's understanding of key concepts and procedural guidelines related to organizational management, human resource, and leadership. The purpose is to be equipped to deal effectively with managerial challenges dealing with people.

BUS 505 - Creating Consumer Value

3 Credit(s)

This course presents learners with a comprehensive approach to creating consumer value. This includes marketing and

brand management in for-profit firms as well as identifying and meeting consumer needs in non-profit and governmental organizations. Topics include segmentation and targeting of consumers; the positioning levers of product, price, promotion, and distribution; and brand management.

ECON 505 - Managerial Economics

3 Credit(s)

This course demonstrates how economics theory is applied to national and international managerial decision-making. The course covers topics such as demand analysis, production and cost functions, market structure, managerial understanding of public policy, and international trade finance topics. Pre-req.-Undergraduate Economics course with a grade of C or higher.

BUS 520 - Managerial Accounting

3 Credit(s)

This course provides a review of financial reporting standards and statements and analysis of those financial statements. Managerial accounting principles will be explored as well as budgeting, cost allocation, accumulation, cost behavior, and relevant costs; revenues are approached from a managers' perspective. Prerequisite: undergraduate accounting course with a grade of C or higher.

BUS 525 - Financial Analysis

3 Credit(s)

Students will embark on studying basic financial principles and enhance that with understanding various valuation concepts and methods. Emphasis is also placed on capital budgeting and long term financing as well as working capital management. The course will blend time-tested finance principles and the latest advancements with the practical perspectives of the financial manager. Prerequisite: undergraduate accounting course with a grade of C or higher.

Prerequisite(s):

BUS 520 Minimum Grade: C

BUS 540 - Strategy

3 Credit(s)

In this course, learners examine tools and techniques for competitive analysis, strategic planning, and strategy implementation. Learners gain knowledge of the tools and concepts needed to develop a business strategy including macro environmental scanning, industry and competitive analysis, value chain analysis, SWOT analysis, identification of critical success factors and driving forces, and development of strategic alternatives and recommendations.

Public Administration Emphasis

BUS 580 - Public/Nonprofit Management

3 Credit(s)

This course is designed to examine public and nonprofit management. This type of management is driven by mission

and/or executive/legislative direction. Students will learn both the theory and practice of public and nonprofit management, using the concept case method and service learning opportunities.

BUS 585 - Public Budgeting and Finance

3 Credit(s)

The course is designed to provide the student with an understanding of the primary financial management issues and decisions that confront senior management in the nonprofit and the public sectors. Students will gain an understanding and examine financial analysis techniques from both a practical and strategic perspective for operating and capital decisions.

BUS 590 - Policy Analysis

3 Credit(s)

This course introduces the study of public policy and analysis. It provides an overview of key policy areas and examines three aspects of public policy study: (a) government institutions and the policy making process, (b) the concepts and methods of policy analysis, and (c) the role of policy analysis in clarifying public problems and helping citizens and policymakers choose from among policy alternatives.

BUS 595 - Public Administration Capstone

3 Credit(s)

The Capstone Course offers each student the opportunity to demonstrate mastery of the theory and practice of public administration by applying the knowledge and skills gained in the MBA-PA program. This involves completing a portfolio project reflecting the cumulative knowledge gained from these experiences.

Master of Science in Kinesiology, Exercise Science Emphasis (on-campus)

Go to: Department of Kinesiology

The Master of Science degree in Exercise Science at Adams State is a 36-credit program that offers a wide range of courses and practical experiences in order to prepare students for careers in allied health and sport performance fields. Students can complete the campus-based program in two years which includes coursework, practicum, and research requirements.

A graduate degree in Exercise Science can prepare individuals for leadership roles in corporate fitness, clinical testing, personal training, research, strength and conditioning, or preparation for doctoral-level programs in exercise science.

Required Core

KIN 503 - Introduction to Research

3 Credit(s)

This is an introductory research course for graduate students focusing on the area of physical education and human

performance. Participants will develop an understanding of the purpose and importance of research in this specific area, overview basic elements of quantitative, qualitative, mixed methods, and action research methods, enhance skills to evaluate and critique problem statement for a specific research study, and gain an appreciation for conducting research.

KIN 543 - Statistical Methods in Kinesiology

3 Credit(s)

This course is designed as an introduction of the statistics used in measurement and evaluation, and provides opportunities for students to analyze current research in Kinesiology.

Prerequisite(s):

KIN 509 Minimum Grade: B

KIN 584 - Exercise Science Practicum

3 Credit(s)

The practicum is designed to provide a structured practical experience for which the student is preparing. The assignment must be under the supervision of a qualified professional. The practicum is designed to provide the graduate student an actual field-based experience in a health, physical education, recreation, or athletic environment. The experience should give the student the opportunity to work with a working professional while enhancing and expanding the skills developed during their undergraduate and graduate programs. The practicum will consist of a minimum of 150 hours.

Prerequisite(s):

Complete a minimum of 18 graduate credit hours including KIN 503 and KIN 543 (minimum grade C).

Exercise Science

KIN 529 - Physiology of Exercise

3 Credit(s)

An advanced overview of the physiological basis of physical education and athletics. The effects of exercise on various systems will be considered. Practical application of exercise science to physical fitness and athletic training and performance will be emphasized.

KIN 530 - Human Performance Lab

3 Credit(s)

The Human Performance Lab Internship in the department of KIN is a planned, meaningful work experience. The primary purpose of the human performance lab internship is to allow students the opportunity for hands-on use of various methods of and equipment for exercise/ fitness testing, and to work directly with test subjects so that he/ she is able to apply some of the principles learned in the Physiology of Exercise course.

Prerequisite(s):

KIN 529

Co-requisite(s): KIN 529

KIN 539 - Strength and Conditioning

3 Credit(s)

This course is designed to provide information relative to the basic foundation of coaching sport conditioning including muscle physiology, bioenergetics, training methodology, exercise technique, program design, and facility management. Students will be given the opportunity to develop a general strength training program for a specific sport and to demonstrate their knowledge relative to proper lifting techniques and training procedures.

Prerequisite(s):

KIN 509 Minimum Grade: C

KIN 540 - Biomechanics

3 Credit(s)

This course will involve the study of the anatomical and mechanical principles underlying human movement. Practical application of biomechanical principles in human movement and various sport activities will be emphasized.

KIN 545 - Exercise and Sport Nutrition

3 Credit(s)

An advanced study of nutrition as it applies to exercise and sport. Application of nutrition practices to health, fitness and performance will be explored, as well as issues of supplementation, drug abuse, weight loss/gain strategies, and metabolic nutritional requirements for a variety of sports and exercising individuals.

Prerequisite(s):

KIN 529 Minimum Grade: B

Plus 6 KIN Elective Credits as approved by your Advisor

Plus 1 of the following options

Option 1 - Masters Thesis

KIN 593 - Master's Thesis

6 Credit(s)

This course represents the culminating experience for the graduate student in the Master of Science in Exercise Science program. This course will provide a practical and thorough experience working through a professionally designed research project. It will include a written and oral presentation of the thesis proposal, as well as a written and oral defense of the completed Masters thesis. This course will be taken in the last year of the students program at Adams State University.

Prerequisite(s):

KIN 503 Minimum Grade: C

AND

KIN 543 Minimum Grade: C

Option 2 - Capstone

KIN 596 - Capstone Project

3 Credit(s)

This course is designed to integrate coursework into a capstone experience. It is an applied research course requiring students to utilize the tools and information from all the students coursework into a timely, useful capstone project in cooperation with their professional needs. This course is designed to integrate coursework into a capstone experience. It is an applied research course requiring students to utilize the tools and information from all the students coursework into a timely, useful capstone project in cooperation with their professional needs.

Prerequisite(s):

KIN 503 Minimum Grade: C

AND

KIN 543 Minimum Grade: C

- 1 KIN elective course as approved by your advisor

Minor in Accounting

Go to: Business

A minor in accounting requires 18 hours in business and/or economics, of which a minimum of 15 hours must be in accounting. All 18 hours may be in accounting.

Minimum of 15 Hours from the Following

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 305 - Intermediate Accounting I

4 Credit(s)

The first of a two-course sequence of Intermediate Accounting designed to develop a framework for the role financial accounting plays in the world of business. A study of the conceptual basis of accounting will be conducted, creating a more in-depth understanding of the preparation and interpretation of financial statements and related information. This course will focus on the study of modern-day accounting theory and application of generally accepted accounting principles to various topics and financial statement elements. Students will be introduced to the U.S. Accounting Standards Codification and basic research tools.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 306 - Intermediate Accounting II

4 Credit(s)

The second of a two-course sequence of Intermediate Accounting designed to develop a framework for the role financial accounting plays in the world of business. A study of the conceptual basis of accounting will be conducted, creating a more in-depth understanding of the preparation and interpretation of financial statements and related information. This course will focus on the study of modern-day accounting theory and application of generally accepted accounting principles to various topics and financial statement elements. Students will continue their use of the U.S. Accounting Standards Codification as a research tools.

Prerequisite(s):

BUS 305 Minimum Grade: C- OR T

BUS 307 - Managerial Cost Accounting I

3 Credit(s)

Principles and methods of recording and interpreting cost data. Major emphasis on developing accounting information for planning, control, and decision making.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 308 - Managerial Cost Accounting II

3 Credit(s)

Principles and methods of recording and interpreting cost data. Major emphasis on developing accounting information for planning, control, and decision making.

Prerequisite(s):

BUS 307 Minimum Grade: C- OR T

BUS 355 - Individual Income Taxation

4 Credit(s)

This course involves the study of federal income tax on individual and property transactions. Objectives of taxation are given major emphasis. The Internal Revenue Code is discussed in addition to textbook material in order to acquaint the student with the ultimate source of tax law. Income tax return problems and tax cases may be assigned to provide practical application of the tax law.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 358 - Accounting Ethics

3 Credit(s)

Ethics as it applies to the accounting and auditing professions and will be the focus of this course. Emphasis will be on the concept of independence, along with integrity, objectivity, ethical reasoning, and other core values necessary for a high level of professional ethics in the accounting profession.

Prerequisite(s):

BUS 306 Minimum Grade: C- OR T

BUS 360 - Government and Institution Accounting

3 Credit(s)

Study of accounting procedures related to governmental units and nonprofit institutions.

Prerequisite(s):

BUS 305 Minimum Grade: C- OR T

BUS 371 - Payroll Accounting and Taxation

3 Credit(s)

This course is devoted to the principles of payroll computations and administration including creation and maintenance of payroll records as well as proper payroll tax depositing and reporting.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 377 - Agricultural Taxation

3 Credit(s)

This course is devoted to specific income tax laws associated with agricultural business to include farmers and ranchers both as individuals and as part of taxable entities.

Prerequisite(s):

BUS 355 Minimum Grade: C- OR T

BUS 405 - Advanced Accounting

4 Credit(s)

BUS-405 involves preparation and study of the need for consolidated financial statements. Additionally, it examines accounting problems associated with partnerships and foreign currency transactions.

Prerequisite(s):

BUS 306 Minimum Grade: C- OR T

BUS 407 - Auditing I

3 Credit(s)

Study of ethical standards, auditing standards, audit procedures, and evolution of internal control to learn how financial statements are examined and audit reports prepared in accordance with Generally Accepted Auditing Standards.

Prerequisite(s):

BUS 305 Minimum Grade: C- OR T

AND

BUS 306 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 409 - Fraud Examination

3 Credit(s)

This class will explain how occupational fraud is committed, how fraudulent conduct can be deterred and how allegations of fraud should be investigated and resolved.

Prerequisite(s):

BUS 305 Minimum Grade: C- OR T

BUS 455 - Entity Taxation

4 Credit(s)

Business 455 concentrates on the federal income tax consequences of the formation, normal operation, and the dissolution of corporations, partnerships, and fiduciaries. Other taxation problems of special interest may be covered.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 465 - Estate, Gift, and Fiduciary Tax Law

3 Credit(s)

This course will address the fundamentals of Estate, Gift, and Fiduciary tax law. Topics will include Federal Gift Tax, death transfer tax laws, and fundamentals and reporting returns for estates.

Prerequisite(s):

BUS 455 Minimum Grade: C- OR T

Plus 3 Credits of business or economics courses

Minor in Agribusiness

Go to: Business

A minor in Agribusiness requires 18 hours of agribusiness and/or business, of which 15 hours must be in agribusiness.

Minimum of 15 Hours from the Following

BUS 105 - Introduction to Agribusiness

3 Credit(s)

An introductory course designed to provide students with a basic background in agribusiness issues and practices to give them the foundation to be successful in upper level agribusiness courses and meet expectations for basic knowledge in agribusiness relationships.

BUS 364 - Agribusiness Management

3 Credit(s)

Management issues of agricultural businesses such as the forms of ownership, financial statements, analysis, and planning, investment analysis, strategic marketing, management of organizations, and human resources management.

Prerequisite(s):

BUS 105 Minimum Grade: C- OR T

AND

BUS 207 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

BUS 378 - Commodities/Risk Management

3 Credit(s)

The goal of this course is to provide students with knowledge of risk management for agricultural endeavors as well as practical knowledge of how the futures and options markets work, how to manage risk involved in agriculture production or operation, and various tools available to manage specific situations. BUS 103 Introduction to Business or instructor consent. BUS 105 Introduction to Agribusiness or instructor consent. BUS 318 Principles of Management or instructor consent.

Prerequisite(s):

BUS 103 Minimum Grade: D OR T

AND

BUS 105 Minimum Grade: D OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 384 - Natural Resources/Water Law

3 Credit(s)

The goal of this course is to provide students with knowledge of the regulatory responsibilities related to agriculture production and operations with respect to natural resources and water. The course will cover federal, state, and local requirements as well as application to agribusiness endeavors.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 211 Minimum Grade: C- OR T

BUS 398 - Farm and Ranch Management

3 Credit(s)

The application of economic and business principles to the management and operation of farms and ranches for decision making purposes.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 207 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

BUS 478 - Agricultural Marketing

3 Credit(s)

An overview of current marketing methods used for agricultural products and services, including value added marketing.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 488 - Agricultural Policy and Farm Bill

3 Credit(s)

Development and implementation of public policy in agriculture, implications of international competition and trade, and development and interpretation of argument in policy development.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

BUS 498 - World Food Distribution/Agricultural Economics

3 Credit(s)

Knowledge and application of economic concepts to the sectors of agriculture including microeconomic and macroeconomic relationships, world markets, and trade.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Plus 3 Hours of a 300- or 400-level Business Elective

Minor in Anthropology

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

Degree Requirements

There are two possible tracks for the completion of the anthropology minor:

Required Courses

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ANTH 205 - Physical Anthropology

3 Credit(s)

The course will examine physical anthropology as a sub discipline of anthropology. The goal is to understand how the physical realities of being human affects the nature of culture. The central theme will be the evolution of humans from the earliest hominid forms to modern Homo sapiens. The course will focus on the mechanisms of evolution, an understanding of primate behavior in general, and the fossil evidence for hominid development.

ANTH 300 - Archaeology

3 Credit(s)

This course will provide an overview of archaeological method and theory with a particular emphasis on American archeology, and provide a general survey of prehistory with an emphasis on the western United States.

ANTH 310 - Anthropological Linguistics

3 Credit(s)

After a general introduction to the nature of language (descriptive linguistics) this course will focus on human communication and the uses of language (psycholinguistics and sociolinguistics) and on the language cognition relationship (cognitive anthropology and symbolic anthropology).

Plus, Select 2 Courses from the Following Electives

ANTH 330 - Humans and Water

3 Credit(s)

This class will explore the relationship between humans and water through space and time, focusing on the American West. We will look at how different cultural groups interact with and manipulate water, as well as how they view the natural resource. In addition, we will analyze how changes in water resources influenced human cultures.

ANTH 339 - Field School in Archaeology

6 Credit(s)

The purpose of this course is to provide students with the basic skills, and the theories from which they are derived, necessary to do archaeological fieldwork. The student will learn basic techniques of site identification and recording, excavation, and artifact processing and analysis. In addition, they will learn instrument surveying and introductory applications of geographic information systems. The skills taught will be appropriate for either prehistoric or historic sites.

ANTH 360 - Forensic Anthropology

3 Credit(s)

This class examines the science and methods of physical anthropology as it relates to the medico-legal work done to identify unknown human remains in atypical circumstances. This introductory course will introduce students to human osteology and dentition in relation to identifying age, sex, stature, and ancestry, as well as bone pathologies and techniques for estimating time of death and post-mortem changes. As part of the course, some visual materials will depict trauma and decomposition of human remains.

ANTH 349 - Anthropology Internship

3 to 6 Credit(s)

This course provides the student with meaningful hands on experience in the field of Anthropology. Students will engage with internship work at a research library, museum, community organization, government agency, or other applicable institution to enhance their knowledge of sources, research methods, institutional cultures, and potential work environments.

ANTH 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

ANTH 450 - Southwest Archaeology

3 Credit(s)

This course explores the greater Southwest from the earliest human inhabitants to Spanish colonization. We will discuss significant changes and trends in subsistence, technology, social systems, and political organization over roughly 15,000 years; from hunter-gatherers following mammoths on the landscape to the Pueblo Revolt of 1680. The course will give students an appreciation of the adaptations of people in the Southwest to an often harsh environment, while also introducing them to the methods and theories archaeologists use to understand the past.

ANTH 460 - Medical Anthropology

3 Credit(s)

This course will explore the cross-cultural significance of health and wellness from an anthropological perspective. We will delve into the complex interplay of biological, psychological, social, environmental, and political-economic processes on the concepts of illness, suffering, and healing. Particular emphasis will be placed on the ethnographic approach to the lived context in which wellness and suffering are experienced, narrated, and addressed.

Minor in Art

Go to: [Art](#)

The art minor consists of 18 credit hours (6 courses) that can be taken alongside your major requirements during any semester at Adams. You can choose to take courses in any art discipline or you can take several courses within one studio areas. If you are interested in adding an Art minor to your degree you will need an art faculty advisor. Contact the Department Chair for more information.

Degree Requirements

Required Core

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

Plus One or More of the Following

AR 105 - Introduction to Art Criticism

3 Credit(s)

This course introduces students to art criticism and critical thinking in the field of visual art. Exercises in reading about art, observing art, and talking and writing about art, will develop the student's ability to discuss their own work and a

wide variety of artworks by others. Students will be introduced to and practice techniques for reading, thinking, writing, and speaking critically as applied to art.

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 209 - Beginning Drawing II

3 Credit(s)

This course is a further exploration of drawing with emphasis on integrating the principles of drawing and design into a meaningful composition on a two-dimensional surface. Problems of color and spatial organization are also stressed. A variety of subject matter will be considered. Instructor permission may be obtained to register for this course. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 208 Minimum Grade: C- OR T

AR 220 - Painting

3 Credit(s)

Studio problems exploring characteristics and techniques of painting media with emphasis on color, form, and structure as related to the painting surface. This course has a course specific fee to cover the costs of some materials.

AR 260 - Beginning Printmaking I

3 Credit(s)

An introduction to basic black and white printmaking techniques using relief, collograph, and intaglio processes. This course has a course specific fee to cover the costs of some materials.

AR 261 - Beginning Printmaking II

3 Credit(s)

An introduction to basic black and white printmaking techniques using monotype and lithography processes. This course has a course specific fee to cover the costs of some materials.

AR 280 - Beginning Black and White Photography

3 Credit(s)

A foundation course exploring the history and techniques of traditional black and white photography. Emphasis on photography as a medium for creative expression. Significant darkroom time is required. Students must have their own

35mm SLR camera. There is a lab fee for this course. This course has a course specific fee to cover the costs of some materials.

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

AR 252 - Beginning 3D - Form and Extended Media

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to fabrication and subtractive processes and materials. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in introductory metal fabrication, CAD/CAM technology, metal casting, and wood or stone carving. This course has a course specific fee to cover the costs of some materials.

AR 3XX: 3D Form & Media Rotator (3 Hours)

AR 253 - Ceramics: Handbuilding

3 Credit(s)

This course introduces students to the fundamental concepts of ceramic art. Topics include hand-forming methods such as pinch, coil, and slab building as well as an exploration of various surface treatment techniques such as slips and glazes. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to sculptural ceramic objects. As time permits, instruction will include various firing techniques such as oxidation, pit, saggar and Raku. This course has a course specific fee to cover the costs of some materials.

AR 352 - Molding Design and Cold Casting

3 Credit(s)

Mold design and cold casting are practical skills that can be applied to a wide variety of sculptural materials. In this course, students are introduced to the significant concepts for designing and fabricating single and multi-part molds. These molds will then be used to create unique pieces or mass-produced products. Additional emphasis is placed on conceptual themes that will vary depending on the instructor. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 353 - Sculpting and Hot Casting

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to casting metal and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in life cast molds, modeling clay, lost wax casting of bronze, aluminum, and/or iron, multipart rubber and support shell molds, TIG welding process, and patination of metal. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 354 - Digital Sculpture

3 Credit(s)

This course emphasizes the conceptual aspects of sculpture while introducing the development of technical skills related to 3D digital design, rapid prototype fabrication, projection mapping and related processes. The course is structured around assignments that emphasize individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include content in 3D printing, CNC plasma, CNC laser, CNC milling and projection mapping software design and installation. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 355 - Jewelry and Metalsmithing

3 Credit(s)

This course introduces students to the technical skills related to the design, fabrication and forming of metals and mixed media while emphasizing the conceptual aspects of jewelry and metalsmithing. The course is structured around assignments that highlight individual work ethic and productivity, research skills, creative expressiveness, and class participation. Projects may include the following: band ring fabrication, cuttlebone casting, raising, enameling, chain making, stone setting, cold connections, rolling mill processes, pattern dies, and hydraulic die forming. This course has a course specific fee to cover the costs of some materials.

AR 356 - Ceramics: Wheel Throwing

3 Credit(s)

Wheel-throwing introduces students to the pottery wheel as a tool for creating three-dimensional forms. This course emphasizes the development of student's design vocabulary and innovative personal aesthetic as it applies to utilitarian objects. Through technical demonstrations, image presentations, discussions and assignments, students are challenged to consider the role of the handmade functional object in contemporary material culture. Additionally, students develop skills in glazing and firing their work in electric and gas reduction kilns. This course has a course specific fee to cover the costs of some materials.

AR 357 - Experimental Ceramic Processes

3 Credit(s)

Experimental Ceramics is a forum for students to explore non-traditional ceramic forming methods in the creation of three-dimensional, sculptural artworks. Through technical demonstrations, image presentations, discussions and themed assignments, this course challenges students to experiment with large scale handbuilding, paperclay slip construction, alternative firing methods, non-ceramic surface treatments, as well as clay and glaze formulation. Additional emphasis is placed on content development by exploring complex forms, developing methods of narrative, and identifying source material for work. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 252 Minimum Grade: C-
OR

AR 253 Minimum Grade: C-

AR 358 - Papermaking

3 Credit(s)

The class utilizes handmade paper as a material for making art. A variety of techniques will be explored including handmade paper sheets, books, and sculptural objects. The historical origins of papermaking, production of pulp fiber, traditional eastern and western styles of papermaking, experimental paper sheet formation techniques, and three-dimensional paper construction methods will be presented. This course has a course specific fee to cover the costs of some materials.

Minor in Biology

Go to: [Biology](#)

Degree Requirements

Completion of at least 18 credits selected in consultation with the department chair or completion of the following required courses:

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1
OR ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score:
18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- OR BIOL-209 Minimum Grade: T OR BIOL-209 Minimum Grade: C- AND (CHEM-131 Minimum Grade: C- OR CHEM-131 Minimum Grade: T) OR (CHEM-111 Minimum Grade: C- OR CHEM-111 Minimum Grade: C- OR CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

BIOL 321 - Genetics

3 Credit(s)

A study of Mendelian and molecular genetics of eukaryotes and prokaryotes. Discussions include basic Mendelian principles, meiosis/mitosis, linkage, gene expression, and molecular techniques. Course includes 3 hours of lecture and 1 hour of peer learning activities per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

OR

CHEM-132 Minimum Grade: C- OR T

AND

CHEM-132L Minimum Grade: C- OR T

BIOL 323 - Cellular Biology

3 Credit(s)

The study of higher plant and animal cells and tissues at the biochemical level including: organelle structure, function, and metabolic role; cell growth, differentiation and specialization; and a survey of instrumentation and methodologies for investigating life processes at the biochemical level. Course includes three hours of lecture per week. Concurrent registration in BIOL 321 and BIOL 325 is recommended.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T

OR

BIOL-210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM-111 Minimum Grade: C- OR T

AND

CHEM-111L Minimum Grade: C- OR T

OR

CHEM-131 Minimum Grade: C- OR T

AND

CHEM-131L Minimum Grade: C- OR T

BIOL 325 - Cellular Biology/Genetics Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with BIOL 321 and BIOL 323. Laboratory exercises in this

course are designed to demonstrate, complement, and extend concepts considered in BIOL 321 and BIOL 323. Students will engage in exercises involving a variety of techniques in which data pertinent to both disciplines will be gathered and analyzed. Course includes 3 hours of laboratory per week.

Prerequisite(s):

BIOL 203 Minimum Grade: C- OR T
OR

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 204 Minimum Grade: C- OR T

OR

BIOL-209 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

AND

CHEM 111L Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 131L Minimum Grade: C- OR T

Co-requisite(s): BIOL 321 BIOL 323

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T
AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

BIOL 332 - Evolution

3 Credit(s)

A study of the history and development of evolutionary theory. Consideration is given to evidence for and mechanisms of evolution from anatomical, developmental, geological, mathematical, and molecular perspectives. Credit or concurrent registration in BIOL 330 is recommended. This course includes 3 hours of lecture per week.

Prerequisite(s):

BIOL 209 Minimum Grade: C- OR T
AND

BIOL 210 Minimum Grade: C- OR T

Minor in Business Administration

Go to: Business

Note: A minor in Business Administration is not allowed if a student also has a major in business.

Degree Requirements

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

Plus 6 Hours

from the following (may, but need not, come from the same subgroup):

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND/OR

BUS 307 - Managerial Cost Accounting I

3 Credit(s)

Principles and methods of recording and interpreting cost data. Major emphasis on developing accounting information for planning, control, and decision making.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T
AND/OR

BUS 355 - Individual Income Taxation

4 Credit(s)

This course involves the study of federal income tax on individual and property transactions. Objectives of taxation are given major emphasis. The Internal Revenue Code is discussed in addition to textbook material in order to acquaint the student with the ultimate source of tax law. Income tax return problems and tax cases may be assigned to provide practical application of the tax law.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

AND/OR

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

AND/OR

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 320 - Bus Computer Applications II

3 Credit(s)

The focus of this course is to explore application software on a comprehensive level to gain expertise to support decision-making and manage information. Study includes intermediate Word and Excel applications; intermediate to advanced PowerPoint; intermediate Access, integration of Office applications, and an introduction to HTML and building web pages.

Prerequisite(s):

BUS 120 Minimum Grade: C- OR T

BUS 362 - Human Resource Management

3 Credit(s)

Analysis of techniques used to organize, motivate, and manage personnel in public or private organizations. Includes case studies and examines current literature and the current legal environment..

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

AND

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256
AND

BUS 373 - Investment Analysis

3 Credit(s)

BUS 318 recommended. The course is a study of personal investment planning, traditional and alternative investment vehicles, investment media, investment strategy, and portfolio analysis. The student will become familiar with both money market and capital investment markets as well as strategies for assessing returns and risks of various security instruments.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T
AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

AND

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

Minor in Chemistry

Go to: Chemistry

Completion of at least 18 semester hours, including CHEM 131 and CHEM 132 and a one-year sequence of upper-division chemistry. The minor must be approved by the coordinator of the chemistry program.

Minor in Coaching

Go to: Department of Kinesiology

The coaching minor in Kinesiology is designed for those who are not majoring in Kinesiology but would like to coach at the amateur level, including elementary, junior high, secondary, or post-secondary levels.

Degree Requirements

A minor in coaching consists of the following (Total 18 hours):

KIN 302 - Sport Psychology

3 Credit(s)

Sport psychology is primarily concerned with the interaction between psychological variables and participation in sport and exercise. This course will review this interaction by addressing variables that affect the individual athlete, influence sport and exercise environments, shape group processes, enhance health and wellbeing, improve performance, and facilitate psychological growth and development in sport participants from diverse populations.

KIN 309 - Care / Prevention of Athletic Injuries

3 Credit(s)

The course will focus on the care and prevention of athletic injuries, including the evaluation, nature, types, and functions of various rehabilitation programs.

KIN 350 - Methods of Coaching

3 Credit(s)

This course is intended to provide the foundations of coaching for a person who wants to coach at the youth, elementary, high school or college level. Through a series of discussions, readings, and other projects, the potential coach will gain the knowledge and skills required to be an effective coach. This course will address the many roles and duties a coach must accept to provide positive experiences for athletes in sport.

KIN 380 - Diversity, Equity Sport, and Society

3 Credit(s)

This course has a two-fold purpose: first, it is designed to provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask questions and think critically about sport as a part of society. This course will explore issues around diversity, equity and inclusion in sport and society.

KIN 391 - Sport Ethics and Leadership

3 Credit(s)

This course explores the myriad of moral and ethical issues pertaining to athletes, sports, and sport organizations and how these apply to professionals in the field of sport management. The course will also explore leadership theories and philosophies. Current examples of ethical dilemmas in sport and sport management will be presented, and students will explore their personal ethics in relation to these issues.

KIN 480 - Coaching Practicum

3 Credit(s)

In this course, students will gain actual field-based experience in coaching. This course will give the student an opportunity to gain documented experience as a coaching intern, apply the skills developed during his/her undergraduate program, and reflect on his/her experiences.

Prerequisite(s):

KIN 350 Minimum Grade: C- OR T

Note

A coaching practicum is required for the minor. The practicum may be accomplished, with the approval of the department chair, by assisting with an elementary, junior or senior high school program, or with college sports program.

Completion of the practicum will qualify the individual for the Adams State University Coaching Certification. A prerequisite to the practicum is KIN 350 AND at least 10 hours in the coaching minor core.

Minor in Computer Science

Go to: Engineering and Computer Science

Degree Requirements

CSCI 205 - Computer Science I

4 Credit(s)

This course is the second course in the introductory programming sequence for computer science majors. Through the study of object design this course introduces the basics of graphical user interfaces, data types, control structures,

methods, arrays, strings, files, simple graphics and fundamental algorithms. Students will also be introduced to object oriented design, polymorphism, interfaces, the concept of object abstraction, and simple design patterns.

Prerequisite(s):

CSCI 104 Minimum Grade: C- OR T

OR

CSCI 202 Minimum Grade: C- OR T

CSCI 206 - Computer Science II

4 Credit(s)

This course is the third course in the introductory programming sequence for computer science. The course continues object oriented programming and first concepts in object oriented software design. The course also covers classic data structures and algorithms. Concepts covered include streams, graphs, trees, recursion, complexity classes, sorting and searching routines, basic algorithm design and analysis, threading, and generic programming.

Prerequisite(s):

CSCI 205 Minimum Grade: C- OR T

A Minimum 12 Credits from the Following

CSCI 224 - Discrete Concepts

4 Credit(s)

A course on the fundamentals of discrete (as opposed to continuous) processes. The course is a foundational course for students pursuing the B.S. Mathematical Sciences Computer Science degree. The course covers a variety of discrete mathematical topics required for a solid background in computer science, including mathematical logic, set theory, induction, algorithmic complexity, combinatorics, discrete probability, basic graph theory, relations, Boolean algebra, finite state automata, and basic theory of computation.

Prerequisite(s):

Math Placement Test - Minimum Score: 5

OR

MATH 106 Minimum Grade: C- OR T

AND

CSCI 205 Minimum Grade: C- OR T

CSCI 307 - Programming Languages & Platforms

3 Credit(s)

This course will examine several of the most used programmable platforms/contexts, the programming languages that are used for each, and why each is the way it is. Specific cases and examples that will be considered are cloud

computing, mobile platforms, multiprocessors, service oriented architectures, virtual machines, functional programming, logic programming, web services, security, scripting, and even a little low level programming. Students will learn about the various types of programming languages and their appropriate use as well as the use of scripting languages, architectures, application programming interfaces, and programming practices to facilitate the management, integration and security of the systems that support an organization.

Prerequisite(s):

CSCI 205 Minimum Grade: C- OR T

CSCI 316 - Computer Architecture

3 Credit(s)

This class will introduce concepts of computer architecture and organization, including assembly level machine organization, data representation, memory systems, bus principles, digital logic, micro programs, functional machine architecture, RISC, CISC, parallel architectures and other advanced architectures. It will expose students to assembly-level programming and will make them implement assembly programs.

Prerequisite(s):

CSCI 206 Minimum Grade: C- OR T

CSCI 318 - Multiprocessor Computing

3 Credit(s)

Introduction to multiprocessor programming and application development covers the principles and practice of distributed system architectures and models, interprocess communication, distributed algorithms, concurrency, security, application programming interfaces, system performance, and programming paradigms appropriate for programming of multiprocessor systems.

Prerequisite(s):

CSCI 325 Minimum Grade: C- or T

CSCI 335 - Foundations of Networks

4 Credit(s)

This course introduces students to computer networks. Focus is on the concepts of networking like the OSI layered network architectures, network protocols and protocol design. Topics include the fundamentals of networking and communications, network management and wireless computing. Lab sessions feature computer networking hands-on exercises. The course also exposes students to network programming through the use of sockets

Prerequisite(s):

CSCI 205 Minimum Grade: C- OR T

CSCI 325 - Algorithm Design and Analysis

3 Credit(s)

Introduces formal techniques to support the design and analysis of algorithms, focusing on both the underlying mathematical theory and practical considerations of efficiency. Topics include asymptotic complexity bounds, techniques of analysis, algorithmic strategies, and an introduction to automata theory and its application to language

translation.

Prerequisite(s):

CSCI 205 Minimum Grade: C- or T
AND

CSCI 206 Minimum Grade: C- or T

AND

MATH 250 Minimum Grade: C- or T

CSCI 417 - Computer Systems and Architecture

4 Credit(s)

This class will familiarize students with the basics of the inner workings and design of Computer Systems. The course will examine how operating systems, computer hardware and other system software/hardware combine to produce a usable, efficient and secure system. Topics will include basic machine architecture, memory management (primary and secondary), bus principles, I/O devices, data representation, file systems, process/thread management, scheduling, simple digital logic, virtualization, real time systems concepts, and embedded systems. This course will also examine alternative system designs including basic distributed systems.

Prerequisite(s):

CSCI 206 Minimum Grade: C- OR T

CSCI 428 - Artificial Intelligence

3 Credit(s)

Provides both a brief overview of the basics of artificial intelligence and machine learning, and an in-depth investigation of selected hot topics in the field. The course will examine basic and advanced search techniques, knowledge representation, machine learning and data mining, natural language processing, and historical and philosophical issues regarding artificial intelligence. The course is a project-based course that will involve implementing and experimenting with open-source machine-learning software.

Prerequisite(s):

CSCI 206 Minimum Grade: C- or T
AND

CSCI 224 Minimum Grade: C- or T

Minor in Creative Writing

Go to: Languages, Literature, and Media Communication

Degree Requirements

All students are required to take:

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T
AND

ENG 102 Minimum Grade: C- OR T

ENG 227 - Introduction to Creative Writing

3 Credit(s)

Students write and read poetry, fiction, creative nonfiction, and drama, develop aesthetic standards, and evaluate their writing and that of their classmates. Course emphasizes the writing process, including strategies for invention and revision, and presents ideas for teaching creative writing.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

In Addition, Three Courses from the Following Must Be Selected

ENG 326 - Creative Writing Poetry Workshop I

3 Credit(s)

This course will teach students to develop their craft and creativity in the genre of poetry. Students submit original poems weekly, read selected works of contemporary, published poetry, and critique their own work and that of their classmates. Students practice revision and submit revised work in a final portfolio of at least 10 pages.

Prerequisite(s):

ENG 227 Minimum Grade: C- OR T
AND

ENG 210 Minimum Grade: C- OR T

OR

ENG 203 Minimum Grade: C- OR T

ENG 327 - Fiction Workshop I

3 Credit(s)

This course will teach students to develop creativity in the genre of prose fiction (short story). Students will submit their original writing, read works of published fiction, and critique their own work and the work of their classmates.

Prerequisite(s):

ENG 227 Minimum Grade: C- OR T

ENG 328 - Creative Nonfiction I

3 Credit(s)

This course covers techniques in nonfiction writing encompassing a variety of styles, forms, and topics, encouraging exploration of the genre's innumerable possibilities while developing the student's personal and critical theories of writing.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

AND

ENG 227 Minimum Grade: C- OR T

ENG 426 - Poetry Workshop II

3 Credit(s)

This course will teach students to further develop their craft and creativity in the genre of poetry. Students will submit original poems weekly, read selected works of contemporary published poetry, and critique their own work and the work of their classmates. They will practice revision and submit revised work in a portfolio of at least 15 pages.

Prerequisite(s):

ENG 326 Minimum Grade: C- OR T

ENG 427 - Fiction Workshop II

3 Credit(s)

This course will teach students to further develop their craft and creativity in the genre of prose fiction (short story). Students will submit their original writing, read works of published fiction, and critique their own work and the work of their classmates.

Prerequisite(s):

ENG 327 Minimum Grade: C- or T

ENG 428 - Creative Nonfiction II

3 Credit(s)

This course covers advanced techniques in nonfiction writing begun in ENG 328 as the student assembles a portfolio of work suitable for application to graduate programs.

Prerequisite(s):

ENG 328 Minimum Grade: C- OR T

ENG 497 - Capstone Writing Workshop

3 Credit(s)

This course is designed as a capstone for all Creative Writing majors. The content of the course will focus on organization, editing, and honing of a final writing project.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

AND

ENG 214 Minimum Grade: C- OR T

OR

THTR 213 Minimum Grade: C- OR T

AND

ENG 227 Minimum Grade: C- OR T

AND

ENG 326 Minimum Grade: C- OR T

AND

ENG 327 Minimum Grade: C- OR T

AND

ENG 328 Minimum Grade: C- OR T

In Addition, One Course from the Following Must Be Selected

ENG 458 - Reading Poetry

3 Credit(s)

A study of poetry from ancient to contemporary with an emphasis on form and technique.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

ENG 460 - Reading Short Prose

3 Credit(s)

A study of fiction and nonfiction short prose forms with an emphasis on authors writing in the English and American traditions, but including works in translation, and with special attention to form and technique.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

Minor in Economics

Go to: Business

Degree Requirements

A minimum 18 credits from the following:

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 307 - Managerial Cost Accounting I

3 Credit(s)

Principles and methods of recording and interpreting cost data. Major emphasis on developing accounting information for planning, control, and decision making.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 320 - Bus Computer Applications II

3 Credit(s)

The focus of this course is to explore application software on a comprehensive level to gain expertise to support decision-making and manage information. Study includes intermediate Word and Excel applications; intermediate to advanced PowerPoint; intermediate Access, integration of Office applications, and an introduction to HTML and building web pages.

Prerequisite(s):

BUS 120 Minimum Grade: C- OR T

BUS 355 - Individual Income Taxation

4 Credit(s)

This course involves the study of federal income tax on individual and property transactions. Objectives of taxation are given major emphasis. The Internal Revenue Code is discussed in addition to textbook material in order to acquaint the student with the ultimate source of tax law. Income tax return problems and tax cases may be assigned to provide practical application of the tax law.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 373 - Investment Analysis

3 Credit(s)

BUS 318 recommended. The course is a study of personal investment planning, traditional and alternative investment vehicles, investment media, investment strategy, and portfolio analysis. The student will become familiar with both money market and capital investment markets as well as strategies for assessing returns and risks of various security instruments.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

BUS 378 - Commodities/Risk Management

3 Credit(s)

The goal of this course is to provide students with knowledge of risk management for agricultural endeavors as well as practical knowledge of how the futures and options markets work, how to manage risk involved in agriculture production or operation, and various tools available to manage specific situations. BUS 103 Introduction to Business or instructor consent. BUS 105 Introduction to Agribusiness or instructor consent. BUS 318 Principles of Management or instructor consent.

Prerequisite(s):

BUS 103 Minimum Grade: D OR T

AND

BUS 105 Minimum Grade: D OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 383 - International Financial Management

3 Credit(s)

A comprehensive study of international financial markets that covers currency exchange mechanisms in theory and practice. In line with the rapid globalization of the economy, the goal of this course is to analyze the international financial environment and how managers function in this increasingly uncertain global environment. The course will focus on three main areas of international finance: international financial environment, exchange rate behavior, and exchange risk management.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 414 - Commercial Banking

3 Credit(s)

Bank Management is an in-depth study of banking institutions, with special emphasis on commercial banks and their connection to the Federal Reserve System and other financial institutions. A risk management perspective is adopted, and the fast changing global regulatory and financial environments are discussed. A Uniform Bank Performance Report will be analyzed.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 416 - Business Financial Problems

3 Credit(s)

Emphasis on financial decision-making within the firm using case studies as the primary activity. Topics include financial goals and strategy, financial analysis and forecasting, capital budgeting, capital structure decisions, dividend policy, and firm valuation.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

ECON 425 - Economic Policy

3 Credit(s)

Study of the structure and functions of the U.S. economic system and the use of monetary, fiscal, and other policies to stabilize the economy. Emphasis on historical roots and the evolution into new behavioral economic ideas as well as the complex interplay of policy and economic forces.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

ECON 433 - Managerial Economics

3 Credit(s)

Application and integration of microeconomic theory and the tools of decision science to managerial decision-making. Particular emphasis placed on the economic differences caused by monopolies, cartels, and multi-national organizations and their domination of many industries. Understanding of game theory and new economic analysis tools.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

HCA 455 - Health Care Economics

3 Credit(s)

This course will examine health care decision-making and the functioning of health care markets in the U.S. The course is not designed as a pure economics theory course but instead emphasizes how you can frame and analyze various health issues using the principles of economics. By doing so, you will gain a powerful new perspective that will help you understand the decisions made by individuals and organizations in the face of scarce resources. Instructor permission.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

BUS 466 - Business Ethics Decision Making

3 Credit(s)

This course explores various ethical issues facing business leaders in modern society. Students will utilize current issues to analyze ethical dilemmas and decision-making processes common to modern organizations. Emphasizes critical thinking, critical reading, and the importance of professional ethics.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 498 - World Food Distribution/Agricultural Economics

3 Credit(s)

Knowledge and application of economic concepts to the sectors of agriculture including microeconomic and macroeconomic relationships, world markets, and trade.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Plus 3 Hours of a 300- or 400-level Business Elective

Minor in English

Go to: Languages, Literature, and Media Communication

Degree Requirements

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

Completion of 18 total credits in English

Note:

Nine of the 18 hours must be 300 or 400-level. These nine upper-division courses must be taken at Adams State

Minor in English/Communication

Go to: Languages, Literature, and Media Communication

Degree Requirements

Completion of the core requirement (3 hours)

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

Completion of 4 Elective Courses

COMM 165 - Digital Filmmaking

3 Credit(s)

Course covers the aesthetics and practice of narrative, documentary, and experimental media production at an introductory level using a variety of digital filmmaking tools including digital photography, digital video, audio recorders, and editing software. Students will complete video products they can post to YouTube and similar sites.

OR

COMM 365 - Digital Filmmaking

3 Credit(s)

This course covers the aesthetics and practice of narrative, documentary, and experimental media production using a variety of digital filmmaking tools including digital photography, digital video, audio recorders, and editing software. Students will complete video products they can post to YouTube and similar sites.

Prerequisite(s):

COMM 230 Minimum Grade: C- OR T

COMM 190 - Radio Practicum

1 to 3 Credit(s)

Students earn one credit hour for every three hours of work weekly on KASF-FM or its web site. See station manager for details.

COMM 195 - Video Practicum

1 to 3 Credit(s)

Students earn one credit per three videos (or equivalent work) that they produce for the student-run Grizzly Video Productions (YouTube channel and Campus Cable Channel 5). Please see the Grizzly Video Productions faculty adviser or the student GVP General Manager for further details.

COMM 197 - Newspaper Practicum

1 to 3 Credit(s)

Students earn one credit per five stories (of 500 words apiece, or pre-approved substitutions) that they write for the Paw Print. Students should write on a variety of topics. Also required is the attendance of three newspaper staff meetings per credit registered. Please see the newspaper faculty advisor or the student editor for further details.

COMM 275 - News Writing and Criticism

3 Credit(s)

Inverted pyramid print writing and basic broadcast writing are covered in this course. Additionally, students critique, discuss, and analyze current print and broadcasting media conventions, ethics, and procedures.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

COMM 285 - Digital Media Production

3 Credit(s)

Teaches skills needed to produce effective digital media in print, audio, and video formats. Students are encouraged to take this course concurrently with newspaper, radio, and/or video practicum.

COMM 327 - Social Media

3 Credit(s)

Surveys the history of the early Internet and the transition to Web 2.0. Students will apply this knowledge by designing, creating, and developing social media presence for non-profits, local municipalities, etc., and training the recipients on how to maintain their social media presence

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

COMM 340 - Citizen Journalism and Freelance Writing

3 Credit(s)

This course focuses on the writing skills and theory behind being a freelance or citizen journalist, including feature writing and literary journalism, blogging, and video.

Prerequisite(s):

COMM 293 Minimum Grade: C- OR T

COMM 350 - Media Theory and Criticism

3 Credit(s)

Students will explore various theories that explain the nature of mass communication, the impact that media have on society, and the trends in media consumption. Particular emphasis will be placed on propaganda, violence in media, information processing, media monopolies, and critical media consumption. Students will be expected to track current media and debate contemporary media controversies in class.

Prerequisite(s):

COMM 255 Minimum Grade: C- OR T

COMM 360 - Media Management

3 Credit(s)

Students learn how various media organizations are managed and operated, with a specific focus on radio and television. Various management structures are also explored.

Prerequisite(s):

COMM 293 Minimum Grade: C- OR T

COMM 367 - Short Film/Movie Trailer Production

3 Credit(s)

This course is an intensive production workshop on the sort film and the structure of the commercial movie trailer. Students work in small groups to create an original narrative short film and work individually to create a movie trailer from existing material. Students will share their works in progress with the class and screen their final work through ASU media outlets such as the Grizzly Video YouTube and GRZ-TV campus cable channel 5.

Prerequisite(s):

COMM 165 Minimum Grade: C- OR T
AND

COMM 285 Minimum Grade: C- OR T

COMM 368 - Documentary Film Production

3 Credit(s)

Production course introduces students to the documentary, a form of non-fiction filmmaking. Students will create short documentaries in visual media, utilizing narration, video, still photos, and other elements to tell a story for general audiences.

Prerequisite(s):

COMM 165 Minimum Grade: C- OR T
AND

COMM 285 Minimum Grade: C- OR T

COMM 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student interests in the field.

COMM 420 - Rhetoric of Popular Culture

3 Credit(s)

This course takes seriously the idea human discourse is inherently persuasive. Further, it takes seriously the idea that popular culture is still human culture, and therefore worthy of analysis to understand how it influences human relationships and political struggle. Students will examine the messages and persuasive discourse found in everyday "texts" in film, television, the Internet, music, technology, celebrity, fashion, and other modes of cultural consumption.

COMM 430 - Diversity in Media

3 Credit(s)

Students will analyze how US media represents traditionally marginalized people in the United States. The course will be primarily discussion based, with students and instructor working together to generate ideas and critique dominant ideologies.

Prerequisite(s):

COMM 350 Minimum Grade: C- OR T

COMM 457 - First Amendment and Copyright

3 Credit(s)

This course explores the First Amendment of the U.S. Constitution and current U.S. copyright laws, and how they apply to and affect both media practitioners and U.S. citizens.

Prerequisite(s):

COMM 255 Minimum Grade: C- OR T
AND

COMM 275 Minimum Grade: C- OR T

COMM 496 - Communication Internship

1 to 3 Credit(s)

Advanced communication students will work in a pre-employment capacity in the field of communications/journalism (broadcasting, video, print, satellite, or computing), applying learned skills in a working environment.

THTR 242 - Voice for Performance

3 Credit(s)

Study of the physical nature of voice production and the sound and mechanisms of speech, including articulation, register, and range. Individual analysis and performance.

THTR 250 - Cinema

3 Credit(s)

An introduction to American cinema. This course will cover such topics as the history of cinema, film analysis, cinematography, editing techniques, film genres, screen writing, and the motion picture industry's responses to cultural issues.

Minor in Environmental Science

Go to: Geosciences

Degree Requirements

Completion of at least 18 credit hours selected in consultation with the department chair or completion of the following.

Completion of Required Courses

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Completion of at Least 4 Credits from the Following

CHEM 334 - Environmental Chemistry

3 Credit(s)

This course is designed to introduce the student to a series of topics including stratospheric chemistry, air pollution, global warming, climate change, renewable energy, pesticides, water pollution, and heavy metal pollution.

Prerequisite(s):

CHEM 331 Minimum Grade: C- OR T

Co-requisite(s): CHEM 334L

CHEM 334L - Environmental Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 334.

Co-requisite(s): CHEM 334

GSCI 212 - Natural Resource Management on Public Lands

3 Credit(s)

This course will examine public lands management from both a theoretical and descriptive perspective. The major political forces affecting public lands, and the specific details of energy policy, forests, rangelands, national parks, and wildlife on public lands are discussed.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

OR

BIOL 330 Minimum Grade: C-

GSCI 311 - Climatology**4 Credit(s)**

This course examines the global patterns of climate and the processes that shape them. Particular attention is given to climate change mechanisms (past & present), human-induced changes to the climate system, and likely future climates. Field- and computer-based methodology relevant to the field of climatology is also emphasized.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 321 - Geomorphology with Environmental Applications**4 Credit(s)**

This course is a study of the processes that control the development of the materials and landforms found on the earth's surface. An emphasis is placed upon the hydrologic and variables in generating landforms and human interactions with these formative processes. Field trips, topographic map, and aerial photo exercises are required. Offered spring semester of even-numbered years.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 433 - Environmental Geochem Model**3 Credit(s)**

This lecture and computer modeling course examines the interaction of geological materials with the surface environment. Processes of transport and fate of contaminants and pollutants from natural and man made sources will be addressed, as well as the geology of some natural resources that contribute pollutants.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

AND

CHEM 131 Minimum Grade: C- OR T

OR

CHEM 132 Minimum Grade: C- OR T

Minor in Finance

Go to: Business

Degree Requirements

A minor in finance requires 18 hours in business and/or economics, of which a minimum of 15 must be in finance.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 367 - Financial Analysis

3 Credit(s)

Examination of techniques for analyzing, understanding, and applying financial information in decision situations. Topics start with financial statement analysis, development of financial models, financial forecasting, cost of capital estimation, and ends with company valuation. In addition, there will be a "hands on" project to provide students with experience in analyzing and understanding a corporate annual report using EXCEL spread sheet analysis.

Prerequisite(s):

BUS 320 Minimum Grade: C- OR T
AND

BUS 363 Minimum Grade: C- OR T

BUS 368 - Financial Institutions

3 Credit(s)

The course focuses on managing return and risk in modern financial institutions. It examines the financial services industry risk of financial intermediation, measurement of interest rate risk, credit and market risk, individual loan and liquidity risks, as well as off-balance sheet and sovereign risks. The course covers management of assets and liabilities, capital adequacy and depository insurance. Futures, forwards, options, caps, floors, collars, swaps and securitization will be also covered.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 373 - Investment Analysis

3 Credit(s)

BUS 318 recommended. The course is a study of personal investment planning, traditional and alternative investment vehicles, investment media, investment strategy, and portfolio analysis. The student will become familiar with both money market and capital investment markets as well as strategies for assessing returns and risks of various security instruments.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

BUS 383 - International Financial Management**3 Credit(s)**

A comprehensive study of international financial markets that covers currency exchange mechanisms in theory and practice. In line with the rapid globalization of the economy, the goal of this course is to analyze the international financial environment and how managers function in this increasingly uncertain global environment. The course will focus on three main areas of international finance: international financial environment, exchange rate behavior, and exchange risk management.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 414 - Commercial Banking**3 Credit(s)**

Bank Management is an in-depth study of banking institutions, with special emphasis on commercial banks and their connection to the Federal Reserve System and other financial institutions. A risk management perspective is adopted, and the fast changing global regulatory and financial environments are discussed. A Uniform Bank Performance Report will be analyzed.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 416 - Business Financial Problems**3 Credit(s)**

Emphasis on financial decision-making within the firm using case studies as the primary activity. Topics include financial goals and strategy, financial analysis and forecasting, capital budgeting, capital structure decisions, dividend policy, and firm valuation.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 426 - Money and Capital Markets**3 Credit(s)**

Discussion of how financial markets are organized, their role in the allocation of funds to various market segments, and

the interaction between financial markets. Topics include aggregate flow of funds analysis, an overview of financial markets, securities markets (money, bond, mortgage, stock, foreign exchange, derivative securities), as well as commercial banks, insurance and securities companies, mutual and pension funds markets. This course also covers financial markets risks and regulations.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 431 - Tech Analysis of Stock Trends

3 Credit(s)

Advanced studies in technical market analysis and trading, money management, investor psychology and analysis elements are considered. The Focus will be on the study of price action in trading markets, patterns and trends, price behavior of financial securities, trading tactics, and construction of a trading or investment model. The course will help students prepare for the Chartered Market Technician (CMT) designation.

Prerequisite(s):

BUS 373 Minimum Grade: C- OR T

BUS 432 - Series 7 General Securities Exam Review

3 Credit(s)

The Series 7 License Exam Review course is designed to prepare the student to take the National Association of Securities Dealers General Securities Representative Exam. After passing the Series 7 License exam the candidate can be licensed to sell various types of securities.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

AND

BUS 373 Minimum Grade: C- OR T

- BUS/ECON 300/400 Elective **3 Credit(s)**

Minor in Fitness Management

Go to: Department of Kinesiology

Degree Requirements

Required Core:

KIN 205 - Sports and Recreation Management

3 Credit(s)

The Sport and Recreation Management course is designed for students preparing for positions with sport and club teams, community recreation, intercollegiate and high school athletics programs, international sport organizations,

national and international amateur sport organizations, or firms specializing in sport. The course is designed to emphasize fundamental knowledge in sport and recreation and will prepare students for various roles in the industry. Through lectures, readings, video, and classroom assignments students will gain an understanding of the sport and recreation industry and how to successfully manage and lead an organization.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

KIN 210 - Sport Communication and Techniques

3 Credit(s)

This course introduces students to the main skills required for sports journalism and public relations, with particular emphasis on writing and public speaking. Students will learn about the historical development and cultural significance of sport and how those have shaped the business of sport. Students will also be introduced to technologies that impact on their abilities to write and disseminate stories and on how those technologies affect the character of messaging.

KIN 305 - Sport Facility Management

3 Credit(s)

This course introduces students to the discipline of facility management as they relate to the sport, recreation, and leisure industries. Key topics will include planning, designing, managing, scheduling, leading, and supervising sport facilities.

Prerequisite(s):

KIN 100 Minimum Grade: C- OR T

AND

BUS 103 Minimum Grade: C- OR T

KIN 390 - Risk Management

3 Credit(s)

This course explores the structure of the legal system, aspects of product liability, negligence, safety, and liability in the sport industry. Students will learn how to develop contracts designed to alleviate responsibility from a practitioner and/or organization from liability due to ordinary negligence. This course also includes discussions and practical applications for establishing a risk management system for facilities and sports programs.

Prerequisite(s):

KIN 120 Minimum Grade: C- OR T

AND

BUS 103 Minimum Grade: C- OR T

KIN 391 - Sport Ethics and Leadership

3 Credit(s)

This course explores the myriad of moral and ethical issues pertaining to athletes, sports, and sport organizations and how these apply to professionals in the field of sport management. The course will also explore leadership theories and

philosophies. Current examples of ethical dilemmas in sport and sport management will be presented, and students will explore their personal ethics in relation to these issues.

KIN 425 - Sport Law

3 Credit(s)

This course explores the structure of the legal system, aspects of constitutional law, labor and anti-trust law, tort law, product liability, contract law, administrative law, and statutory law applicable to the sport industry.

Prerequisite(s):

KIN 390 Minimum Grade: C- OR T

Total Credits: 18

Minor in Food Studies

Go to: Food Studies Department

Required Courses (12 credit hours)

FOOD 100 - Perspectives on Food

3 Credit(s)

This course is an exploration of the multitude of roles that food plays in the world. Each class will consist of a discussion of food through a different lens, such as culture, history, economy, nutrition, power, medicine, and ecology. The course will be highly discussion based and students will be challenged to explore their own personal relationship with food. Grades will be determined based on class participation, weekly reading reflections, a blog-post, and a food sharing presentation in which you will explore the history, culture and personal meaning of a specific dish.

FOOD 200 - U.S. Food Systems

3 Credit(s)

This course will provide an overview of the U.S. Food System, including the policy, agricultural, and cultural history that has led us to the food system that we have today. The course will include the following topics: the role of policy in shaping the food system; the history and current state of federal governmental food and agricultural programs; food as an industry (production, processing, distribution, sales, advertising, and consumer behavior). We will explore the implication of our current system for health, communities, and the environment.

FOOD 250 - Community Food Systems

3 Credit(s)

In this course, students will study local food systems, using the San Luis Valley as a case study for a broader understanding of the role of local food systems in community vitality and health. We will explore: the pathways of food from the farm, to the distributor, to consumer, and finally as waste; inequalities in food access within communities; strategies for creating a resilient and sustainable local food system; and the major players in the local food system.

Students will be provided with many examples of organizations using creative solutions to food system problems.

Prerequisite(s):

FOOD 100 Minimum Grade: C-
AND

FOOD 200 Minimum Grade: C-

FOOD 300 - Food Lab I

4 Credit(s)

This course prepares students for careers in which they will be working with food and covers basic knowledge and skills related to food safety, growing and harvesting food, procuring food, preparing food, and planning menus and educational content. We will spend time working in the Farm Park, helping with tasks and harvesting. In the classroom and kitchen, we will learn basic food preparation, seasonal and local foods, nutritional evaluation of foods, procurement, menu planning, and nutrition education.

Electives (choose 2 of the following)

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T
OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

BUS 105 - Introduction to Agribusiness

3 Credit(s)

An introductory course designed to provide students with a basic background in agribusiness issues and practices to give them the foundation to be successful in upper level agribusiness courses and meet expectations for basic knowledge in agribusiness relationships.

KIN 120 - Concepts in Wellness

3 Credit(s)

In this course, students will learn about the various dimensions of wellness, assess their own health status, and design interventions to improve personal health through lecture, video, laboratory experiences, and physical activities. This course will also provide students with the information necessary to make evidence-based decisions regarding personal wellness and to understand health disparities among diverse populations. There is a physical activity component to this course.

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

SOC 305 - Rural Sociology

3 Credit(s)

The purpose of this course is to introduce some of the social, political, environmental, and economic problems and prospects associated with rural America. Special attention will also be given rural community services and social institutions, with some focus on the San Luis Valley and other parts of rural Colorado.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

KIN 301 - Sport and Fitness Nutrition

3 Credit(s)

This course will present a review of basic nutrition. The course will also explore the areas of sport, exercise and fitness nutrition, supplementation, sport drug use and abuse, weight loss diets, eating disorders, weight gain nutrition, body composition, and the metabolic nutritional requirements of various sports and fitness activities.

Prerequisite(s):

KIN-329 Minimum Grade: C- OR T

AND

BIOL-112 Minimum Grade: C- OR T

OR

BIOL-205 Minimum Grade: C- OR T

BIOL 330 - Ecology

4 Credit(s)

An introduction to major ecological concepts and models at the levels of individuals, populations, communities, and ecosystems. The laboratory includes laboratory and field exercises, and an introduction to data collection and analysis. Previous credit or concurrent registration in MATH 205 and BIOL 332 are recommended. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL 210 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

OR

GSCI 307 Minimum Grade: C- OR T

AND

BIOL 209 Minimum Grade: C- OR T

Co-requisite(s): BIOL-330L

FOOD 350 - Food Lab II

4 Credit(s)

Food lab is a hands-on upper level course for Food Studies majors to learn about food from Farm to Table. Food Lab I & II should be taken in consecutive Spring and Fall semesters, as the Food Lab I students will ideally plant a garden to be harvested by the students in Food Lab II, the following fall. Even if not possible the courses will still be building upon each other. In Food Lab II, students in the class will work together to take care of the garden and harvest crops using sustainable practices. If this is not possible, students will still learn various skills for preparing the land for the harvesting season, taking care of plants, and learning various gardening skills through experiences working at other farms. Grades will be determined by attendance and participation, as well as a midterm reflection and a final project, paper, or exam. Students will also begin learning cooking techniques and styles, getting to practice and try food and skills from different parts of the world.

Prerequisite(s):

FOOD 300 Minimum Grade: C-

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

FOOD 400 - Food Studies Internship I

3 Credit(s)

This is the first internship for the Food Studies interdisciplinary degree. This course does not include regular classroom instruction, but is an internship in a food-related organization. The purpose of this internship is for the student to learn how the organization functions, its mission and principles, and to provide assistance to the organization.

Prerequisite(s):

FOOD 250 Minimum Grade: C-

SOC 470 - Social and Public Programs

3 Credit(s)

This course analyzes the historical development, current content, and adequacy of social welfare policies in the United States. Specific policy areas to be discussed include income maintenance (including social insurance and public

assistance), mental health, health care, and aging.

Prerequisite(s):

SOC 352 Minimum Grade: C- OR T

BUS 488 - Agricultural Policy and Farm Bill

3 Credit(s)

Development and implementation of public policy in agriculture, implications of international competition and trade, and development and interpretation of argument in policy development.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

BUS 498 - World Food Distribution/Agricultural Economics

3 Credit(s)

Knowledge and application of economic concepts to the sectors of agriculture including microeconomic and macroeconomic relationships, world markets, and trade.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Minor in Geography

Go to: Geosciences

Degree Requirements

Required Courses (10 Credit Hours)

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

GSCI 201 - Introduction to Cartography and GIS

3 Credit(s)

This course will introduce students to the core concepts of Geographic Information Systems (GIS) and the importance and relevance of GIS in today's world. Students will learn what GIS is, what it is used for, and how to perform basic and core tasks involving GIS analysis. An objective is to help students develop the ability to think critically about cartographic processes and representations as well as develop their skills in creating maps. Students are expected to have basic computer proficiency prior to enrolling in this course.

GSCI 300 - World Geography

3 Credit(s)

The course examines human or cultural geography with a global perspective. It uses a topic-centered approach. It is intended to give the student an appreciation of the interaction between physical geography, environment, and cultural practices.

Electives

(Students must complete a minimum of 8 credit hours from the following)

GSCI 212 - Natural Resource Management on Public Lands

3 Credit(s)

This course will examine public lands management from both a theoretical and descriptive perspective. The major political forces affecting public lands, and the specific details of energy policy, forests, rangelands, national parks, and wildlife on public lands are discussed.

Prerequisite(s):

GSCI 109 Minimum Grade: C-
OR

BIOL 330 Minimum Grade: C-

GSCI 307 - Bio-Geography

3 Credit(s)

The course builds upon topics introduced in the introductory physical geography and general biology courses and synthesizes concepts addressed in other upper-division courses dealing with vegetation science, climatology, soil, historical geology, ecology, and evolution to explain patterns and processes influencing past and present distributions of organisms.

Prerequisite(s):

GSCI 109 Minimum Grade: C-
AND

BIOL 209 Minimum Grade: C-

GSCI 311 - Climatology

4 Credit(s)

This course examines the global patterns of climate and the processes that shape them. Particular attention is given to climate change mechanisms (past & present), human-induced changes to the climate system, and likely future climates. Field- and computer-based methodology relevant to the field of climatology is also emphasized.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 321 - Geomorphology with Environmental Applications

4 Credit(s)

This course is a study of the processes that control the development of the materials and landforms found on the earth's surface. An emphasis is placed upon the hydrologic and variables in generating landforms and human interactions with these formative processes. Field trips, topographic map, and aerial photo exercises are required. Offered spring semester of even-numbered years.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 330 - Nature and Properties of Soils

4 Credit(s)

This course analyzes soils as natural bodies and managed resources, focusing on impacts of landforms, hydrology, nutrients, and organisms on soils. The laboratory includes analysis of soil patterns, methods of sampling, and techniques of determining physical and chemical properties of soils. Course includes three hours of lecture and two hours of laboratory per week.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

AND

CHEM 111 Minimum Grade: C- OR T

OR

CHEM 131 Minimum Grade: C- OR T

GSCI 420 - Remote Sensing

4 Credit(s)

The course considers acquisition and interpretation of remote sensed environmental data, theory and sensors, and manual and computerized interpretation methods.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

AND

GSCI 201 Minimum Grade: C- OR T

GSCI 411 - Mountain Geography

3 Credit(s)

This class focuses on the physical science of mountains, including the origin of mountains as well as the climatic, geomorphic, and ecological processes and patterns found in mountain environments. The impact of mountains on human settlement and activities are discussed, as well as how humans have impacted mountain environments.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 421 - Glacial and Periglacial Geography

3 Credit(s)

This course will examine geomorphological aspects of the cryosphere, giving emphasis to the study of landforms and sediments created by ice sheets and periglacial processes both past and present. Where relevant, the applied aspects of glacial and periglacial geomorphology will be given specific attention.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

Minor in Geology

Go to: Geosciences

Degree Requirements

Completion of the following required courses:

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

GSCI 112 - Earth History

4 Credit(s)

Introduction to the geological evolution of the earth through time using basic principles of stratigraphy and paleontology. Laboratory work includes identification and classification of fossils and correlation of sedimentary environments.

Prerequisite(s):

GSCI 109 Minimum Grade: C-

GSCI 123 - Geology of the San Luis Valley

1 Credit(s)

This course explores the local geology of the San Luis Valley and surrounding areas on day trips. Course is offered during the fall or spring semester. Outdoor activity required.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

GSCI 350 - Geology Excursion

2 Credit(s)

This course centers around a field trip experience of approximately one week, generally during spring break, to different areas of the southwestern U.S. This course may be taken only twice for credit. An additional fee is required. Camping and outdoor activity is required.

Prerequisite(s):

GSCI 109 Minimum Grade: C- OR T

- GSCI or GSCI 3XX or 4XX elective courses **7 Credit(s)**

Minor in Health Care Administration

Go to: Business

Degree Requirements

A minor in Health Care Administration requires five of the following courses, plus three elective credit hours in business, economics, or nursing, for a total of 18 credit hours.

Completion of 5 of the Following (15 Credits)

HCA 303 - Trends and Issues in Health Care

3 Credit(s)

This course is an introductory Health Care Administration course and will expose the student to the industry and its significant elements and trends of the current health care environment.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

HCA 305 - Health Care Marketing

3 Credit(s)

This course involves an analysis, evaluation, and implementation of marketing strategies within health care and managed-care environments. Designed to develop skills in segmenting customer and medical markets, brand products and services, enhance a communication strategy to the consumer, and develop pricing approaches. Methods and models of marketing fundamentals will be introduced.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 311 - Health Care Law and Ethics

3 Credit(s)

This course presents an overview of the legal and ethical issues faced by health care consumers, practitioners, and administrators. The course will introduce students to the legal aspects of health care at the federal, state, and local levels. Topics covered will include criminal and civil claims against health care providers, corporate and individual liability, and legal and ethical decision-making, individual liability, and legal and ethical decision-making. HCA 361 Health Care Administration. Instructor permission.

Prerequisite(s):

BUS 211 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

HCA 312 - Health Care Med Terminology**3 Credit(s)**

This course will focus on the components of medical terms and the methods for analysis of word definitions. The emphasis will be on learning to define, pronounce, and spell medical terms using prefixes, suffixes, roots, and combining forms related to the anatomy and physiology of the human body. The course will include an introduction to operative, diagnostic, therapeutic, and symptomatic terminology of all body systems.

HCA 325 - Health Care Informatics**3 Credit(s)**

This course is a study of record keeping practices in the hospital and physician's office. Emphasis is placed in hospital and medical staff organization, patient record content, procedures in filing, numbering and retention of patient records, quantitative analysis, release of patient information, forms control and design, indexes and registers, reimbursement, regulatory and accrediting agencies, and alternate health care delivery systems. Instructor permission required.

Prerequisite(s):

BUS 120 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

HCA 363 - Health Care Finance**3 Credit(s)**

This course is devoted to the practical aspects of finance in health care, an examination of current practices in financial management of health care organizations, and managerial applications to specific problems facing health care managers. The first part of the course will focus on an overview of health care finance, managerial accounting, and financial analysis. The second part will continue with managerial accounting and financial analysis and will concentrate on the various tools used in financial management. Emphasis is placed on unique issues and concerns that result from the regulatory framework of health care organizations. At the conclusion of this course, the student should be able to discuss the financial structure, market forces, controls and techniques used in the health care management field, be able to read and analyze financial statements and budgets and have the skill to interpret financial and operating performance.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

HCA 381 - Health Care Admin Internship

3 Credit(s)

The Health Administration Internship provides the students the opportunity to gain practical experience and integrate classroom knowledge and theory in an administrative setting within the health care industry.

Prerequisite(s):

HCA 303 Minimum Grade: C- OR T

HCA 402 - Public and Population Health

3 Credit(s)

This course consists of an examination of epidemiological concepts and methods of studying the distribution and determinants of morbidity and mortality in human population. The knowledge and skills acquired should enable one to understand and critically review scientific literature dealing with epidemiology concepts and measures. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 455 - Health Care Economics

3 Credit(s)

This course will examine health care decision-making and the functioning of health care markets in the U.S. The course is not designed as a pure economics theory course but instead emphasizes how you can frame and analyze various health issues using the principles of economics. By doing so, you will gain a powerful new perspective that will help you understand the decisions made by individuals and organizations in the face of scarce resources. Instructor permission.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 462 - Quality Management in Health Care

3 Credit(s)

Quality is an important aspect of health care; indeed, for most people, it is the most important aspect. Quality is defined in the dictionary as "degree of excellence" or "superiority in kind." Quality of care must be part of both the process and outcome of health care whenever possible. The issue is how does the system develop mechanisms to assure such quality? This course serves as an introduction to the process of quality management in health care organizations.

Principles of total quality in health care will be discussed. Differentiation between quality assurance and quality management will also be presented. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 480 - Health Care Policy

3 Credit(s)

This course is an introduction to health policy. It will focus on how U.S. health policy is developed and will provide students with a general understanding of the policy making process and debates related major U.S. health care legislations.

Prerequisite(s):

HCA 303 Minimum Grade: C- OR T

AND

HCA 305 Minimum Grade: C- OR T

AND

HCA 363 Minimum Grade: C- OR T

Plus One of the Following (3 Credits)

- BUS/ECON/NURS, 300-400 level course

Minor in History

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

Requirements

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

15 Credits of Elective History Courses (300-to 400-level).

Minor in International Business

Go to: Business

Degree Requirements

Minimum of 15 Hours from the Following

BUS 335 - Consumer Behavior

3 Credit(s)

Study of consumer behavior as it relates to the marketing functions. Emphasis on the models of consumer behavior and their application to practical marketing problems.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 383 - International Financial Management

3 Credit(s)

A comprehensive study of international financial markets that covers currency exchange mechanisms in theory and practice. In line with the rapid globalization of the economy, the goal of this course is to analyze the international financial environment and how managers function in this increasingly uncertain global environment. The course will focus on three main areas of international finance: international financial environment, exchange rate behavior, and exchange risk management.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

ECON 425 - Economic Policy

3 Credit(s)

Study of the structure and functions of the U.S. economic system and the use of monetary, fiscal, and other policies to stabilize the economy. Emphasis on historical roots and the evolution into new behavioral economic ideas as well as the complex interplay of policy and economic forces.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

BUS 498 - World Food Distribution/Agricultural Economics

3 Credit(s)

Knowledge and application of economic concepts to the sectors of agriculture including microeconomic and macroeconomic relationships, world markets, and trade.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

BUS 441 - International Marketing

3 Credit(s)

Analysis of opportunities, distinctive characteristics, and emerging trends in foreign markets, including exploration of alternative methods and strategies for entering foreign markets; organizational planning and control; impact of social, cultural, economic, and political differences; and problems of adapting American marketing concepts and methods. This is accomplished through real life planning and implementation of an international marketing plan designed to market a product or service in a foreign country or countries

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

Plus a 3-hour Course

from political science, history or languages in consultation with advisor

Minor in Kinesiology

Go to: Kinesiology Department

A minor in Kinesiology is available in consultation with the department chair. It generally consists of 18 hours of core Kinesiology courses. Physical education activity classes cannot be used to fulfill minor requirements.

Minor in Latino Studies

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

The Latino Studies minor will provide students from departments across campus the opportunity to expand their understanding of economic, social and cultural relationships in an ever more globalized world. This cross-disciplinary minor includes courses from the fields of language, history, literature, sociology and political science. The minor is taught by faculty whose courses touch upon Latino culture, history, politics, language, and society.

Degree Requirements

Completion of the Following Required Course (4 Credits)

SPAN 103 - Elementary Spanish I

4 Credit(s)

A study of the principles of pronunciation, basic level conversation, essentials of grammar, written composition, and reading of materials of graded difficulty.

OR

SPAN 104 - Elementary Spanish II

4 Credit(s)

A continuation of SPAN 103. Covers the principles of pronunciation, conversation, essentials of grammar, written composition, and reading of materials of graded difficulty.

Prerequisite(s):

SPAN 103 Minimum Grade: C- OR T

Elective Courses (15 Hours)

Students must take one course in each of the following disciplines: ENG, POLS, HIST, and SOC from the offerings listed below. The remaining three credit hours may be taken from any of the courses below or any 300 or 400 level Spanish course.

ENG 365 - Ethnic and Minority Literature

3 Credit(s)

A study of the literature of Native American, African-American, Chicano, and other American ethnic and minority groups.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

ENG 375 - Chicano Literature

3 Credit(s)

This course explores the canon of Chicana/o Literature and its multiple influences. Specifically, the course deals with the cultural, political and societal climates that necessitated the literature. The course will focus on oral tradition and its evolution into other genres of Chicana/o Literature (poetry, fiction, & essay). Chicana/o Literature (poetry, fiction, & essay).

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

HIST 328 - Chicano History

3 Credit(s)

A survey of the historical development of the character, economy, social structure, politics, culture, and ideas of the Spanish-speaking people of Mexican descent in the U.S. from settlement until present, with particular attention given to the San Luis Valley.

HIST 355 - Latin America to 1830

3 Credit(s)

A survey of the economic, political, and social dimensions of the colonial system. Themes include the pre-Columbian civilizations of the Americas, the imposition of European rule, the place of Latin America in the emerging Atlantic economy, and the independence movements of the early 19th century. Major emphasis will be given to the "core" areas of Mexico, Peru, and Northeastern Brazil, but other regions will also be considered.

HIST 356 - Latin America Since 1830

3 Credit(s)

This course will examine the evolution of Latin America from the aftermath of independence to the present. Major themes include: the incorporation of Latin America into the global economy, the effect of the export economy on the region's peasant populations, the building of national states, the fate of revolutionary struggles in the 20th century, and Latin America's "neocolonial" relationship with the United States.

HIST 357 - Mexico

3 Credit(s)

Historical survey of the social, intellectual, and political developments from the conquest to the present.

POLS 325 - Political Mvmnts/Latin America

3 Credit(s)

This course broadens students' understanding of Latin America by introducing them to their political aspirations and modes of organization.

POLS 468 - U.S.-Latin American Relations

3 Credit(s)

This course will examine U.S.-Latin American Relations from the Monroe doctrine to the Present. It will explore recent developments in U.S.-Latin American relations, particularly the growing interdependence and the impact of the end of the cold war.

SOC 318 - Race, Class, and Gender

3 Credit(s)

The focus of this course is on the interrelated ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result and the dynamics of change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 365 - Race and Ethnicity in the U.S.

3 Credit(s)

This course provides a sociological approach to race and ethnic relations in the U.S. today. This course introduces the basic sociological theories and perspectives related to the study of race and ethnicity, the histories, and present status of different racial and ethnic groups in the United States and raises questions about continuing racial discrimination and inequality in our society. Issues of defining race, racial identity, interpersonal and institutional discrimination, segregation, and affirmative action (among others) are explored.

Note

ENG 375, HIST 379, POLS 379, and SOC 379 "Special Topics" courses that have content relevant to Latino Studies may also count as electives for the Latino Studies Minor. To determine a course's eligibility for inclusion in the minor, please consult with the student's advisor or the Chair of the HAPPSS Department.

Minor in Management

Go to: Business

Degree Requirements

A minor in management requires 18 hours in business and/or economics, of which a minimum of 15 must be in management.

Minimum of 15 Hours from the Following

BUS 315 - Sales and Sales Management

3 Credit(s)

This course is designed to introduce students to management techniques as they relate specifically to the marketing and sales area. Topics covered include: the selling process, compensation systems, motivation and leadership, time and territory management, sales forecasting, quotas, and evaluating the sales force.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 362 - Human Resource Management

3 Credit(s)

Analysis of techniques used to organize, motivate, and manage personnel in public or private organizations. Includes case studies and examines current literature and the current legal environment..

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

BUS 401 - Organizational Behavior

3 Credit(s)

Participants in the course will explore the theory of human relations in organizations. The emphasis will be on the application of behavioral science knowledge to contemporary organizational issues, which may include individual and group dynamics, motivation, leadership, organizational change, and development.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 418 - Leadership Strategies

3 Credit(s)

This course presents contemporary theories and approaches to leadership practices in modern organizations. Students learn how effective leadership can assist in the creation of a strong organizational culture and the implications external forces have on individual leadership development and continued growth.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 419 - Organizational Change/Develop

3 Credit(s)

The study of planned and unplanned change in organizations to include diagnosis, planning, and implementation of organizational change initiatives. Emphasis is on teamwork within organizations and survey development.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 466 - Business Ethics Decision Making

3 Credit(s)

This course explores various ethical issues facing business leaders in modern society. Students will utilize current issues to analyze ethical dilemmas and decision-making processes common to modern organizations. Emphasizes critical thinking, critical reading, and the importance of professional ethics.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 467 - Creativity and Innovation

3 Credit(s)

Course objectives are to develop skills in generating new and original ideas, increase ability to convert ideas into action and success, and increase knowledge and skill in creative problem solving as applied to business scenarios.

Prerequisite(s):

BUS 361 Minimum Grade: C-

BUS 468 - New Business Venturing

3 Credit(s)

This course introduces students to starting and operating a business. Students will be exposed to how business interacts with government, financial institutions, and society. This course will examine and study the process, challenges, risks, and rewards of starting up a new business. The student will be equipped with tools required to start their own business.

Prerequisite(s):

BUS 365 Minimum Grade: C-

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Plus 3 Hours of Business or Economics Courses, 300-400 Level

Minor in Marketing

Go to: Business

Degree Requirements

Minimum of 15 credit hours from the following:

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 315 - Sales and Sales Management

3 Credit(s)

This course is designed to introduce students to management techniques as they relate specifically to the marketing and sales area. Topics covered include: the selling process, compensation systems, motivation and leadership, time and territory management, sales forecasting, quotas, and evaluating the sales force.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 335 - Consumer Behavior

3 Credit(s)

Study of consumer behavior as it relates to the marketing functions. Emphasis on the models of consumer behavior and their application to practical marketing problems.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 345 - Advertising

3 Credit(s)

Discusses the history, purposes, and regulations of the advertising industry. Topics covered include creative principles, media advantages and disadvantages, media planning, regulation of advertising, and coordination with other promotion activities.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 356 - Retailing

3 Credit(s)

Study of marketing and management problems faced in the operation of a retail business. Emphasis is given to techniques for solving problems in location, management, and merchandising, especially with the integration of Internet retailing (E-Tailing) as both a competitor and an extension of the storefront business.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 385 - Sports Marketing

3 Credit(s)

Illustrates the dynamic, progressive and influential nature of sports marketing. Explores the sport marketing concept as a consumer-driven, integrated, goal-oriented philosophy for a team, event, organization or athlete. Topics covered include: athletic endorsements, team sports, event sponsorships and alternative sports.

BUS 441 - International Marketing

3 Credit(s)

Analysis of opportunities, distinctive characteristics, and emerging trends in foreign markets, including exploration of alternative methods and strategies for entering foreign markets; organizational planning and control; impact of social, cultural, economic, and political differences; and problems of adapting American marketing concepts and methods. This is accomplished through real life planning and implementation of an international marketing plan designed to market a product or service in a foreign country or countries

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 448 - Interactive/Social Media Marketing

3 Credit(s)

This course focuses on relationship marketing, interactive marketing, integration of consumer data, Internet marketing (E-commerce), media advertising, catalogs, mailing lists, telemarketing, and the use of direct marketing techniques to replace or enhance the traditional marketing methods of retail and direct sales.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 449 - Marketing in the 21st Century

3 Credit(s)

This course provides the practical tools and strategies required to successfully leverage social networks, capitalize on their powerful word-of-mouth lift, and how to measure these interactive marketing efforts. These tools will be used on an actual social media marketing campaign for a business or non-profit entity. Current and future marketing tools will be discussed and evaluated.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

AND

BUS 448 Minimum Grade: C- OR T

BUS 454 - Market Research & Information

3 Credit(s)

Study of the theory and methods used in marketing research to address marketing problems. May include the completion of a research project where students learn by performing a research project from problem formulation to writing a research report. Also prepares the students for evaluating research performed by others.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 460 - Marketing Management

3 Credit(s)

Twelve hours of marketing courses and senior status required. Capstone course in marketing. Study of the problems faced by marketing managers as they make decisions and develop policies.

Prerequisite(s):

BUS 454 Minimum Grade: C- OR T

HCA 305 - Health Care Marketing

3 Credit(s)

This course involves an analysis, evaluation, and implementation of marketing strategies within health care and managed-care environments. Designed to develop skills in segmenting customer and medical markets, brand products and services, enhance a communication strategy to the consumer, and develop pricing approaches. Methods and models of marketing fundamentals will be introduced.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

Plus 3 Credit Hours of Business or Economics Courses, 300-400 Level

Minor in Mathematics

Go to: Mathematics

Minor Requirements

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

MATH 220 - Calculus III

4 Credit(s)

This course is an introduction to the calculus of functions of several variables. Typical topics include three-dimensional analytic geometry, vectors, parametric curves and surfaces, arc length and curvature, limits, continuity, partial derivatives, gradients, directional derivatives, tangent planes, multiple integrals, vector fields, line and surface integrals, Green's theorem, Stokes' Theorem, and the divergence theorem.

Prerequisite(s):

MATH 121 Minimum Grade: C- OR T

MATH 250 - Introduction to Mathematical Thought

3 Credit(s)

This course looks at topics central to further study in mathematics. These include symbolic logic, especially as it

applies to mathematical proof; methods of mathematical proof such as direct proof, indirect proof, and by induction; use and meaning of mathematical quantifiers and predicates; sets; relations; equivalence relations and partitions; order relations; and functions and their properties.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

- MATH 3XX Electives approved by the dept. Chair.

Minor in Music

Go to: Music

Entrance Requirements

New music majors and minors are required to complete an entrance audition for admittance to the Department of Music.

Placement Examinations

- Transfer and new students in music must take placement examinations as appropriate in applied music and music theory.
- Students who have not been enrolled in applied music or music theory for two or more years must reaudition for admittance into the Department of Music and take a theory placement exam.

Course Completion Requirements

MUS 000 - Recital Attendance

0 Credit(s)

A requirement for music majors and minors, which consists of attendance at a designated number of concerts/recitals each semester.

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

MUS 103 - Introduction to Music Technology

1 Credit(s)

An introduction to music technology, covering a broad range of topics such as music notation, MIDI, music

sequencing, mixing, and basic audio editing. The programs to be used include Finale, Garageband, and Audacity, and students compose music utilizing basic concepts of music fundamentals and music theory. The goal of this course is to equip students with music technology skills and knowledge that will be of benefit during their collegiate and professional careers.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 104 - Music Theory I

3 Credit(s)

Development of basic music skills and harmony with practical application through part-writing and composition.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 108 - Aural Skills I

1 Credit(s)

Foundational work in sight singing and written dictation.

Prerequisite(s):

MUS 101 Minimum Grade: C- OR T

MUS 204 - Music Theory II

3 Credit(s)

Advanced study in music writing and analysis with emphasis on tonal and chromatic harmony.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T

MUS 208 - Aural Skills II

1 Credit(s)

Emphasis on sight singing in parts, more difficult keys and intervals, modulations, and rhythmic patterns in dictation.

Prerequisite(s):

MUS 104 Minimum Grade: C- OR T
AND

MUS 108 Minimum Grade: C- OR T

Co-requisite(s): MUS 204

MUS 140 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

MUS 141 - Applied Music

2 Credit(s)

Private instruction in applied music. May be repeated for credit (eight hours maximum).

Prerequisite(s):

MUS 140 Minimum Grade: D OR T

2 Semesters (2 Credits Total)

MUS 245 - Concert Band

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard wind or percussion instrument. May be repeated for credit.

MUS 247 - Concert Choir

1 Credit(s)

Open to all qualified students with repertoire selected from the standard choral concert literature. May be repeated for credit.

OR

MUS 257 - Chamber Choir

1 Credit(s)

An advanced mixed choral ensemble, open to students by audition. Repertoire is selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions. May be repeated for credit.

MUS 250 - Orchestra

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard orchestral instrument. May be repeated for credit.

Minor in Music Business

Go to: Business

Go to: Music

Degree Requirements

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial

plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

Optional class

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 362 - Human Resource Management

3 Credit(s)

Analysis of techniques used to organize, motivate, and manage personnel in public or private organizations. Includes case studies and examines current literature and the current legal environment..

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 401 - Organizational Behavior

3 Credit(s)

Participants in the course will explore the theory of human relations in organizations. The emphasis will be on the application of behavioral science knowledge to contemporary organizational issues, which may include individual and group dynamics, motivation, leadership, organizational change, and development.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

Minor in Philosophy

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

Degree Requirements

Required Core

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

Electives (15 hours from the following)

PHIL 202 - Ethics

3 Credit(s)

An examination of criteria governing ethical responses in typical situations as presented by representative thinkers. The application of principles in the development of reasonable standards of conduct and in the formulation of codes of ethics.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

PHIL 300 - Philosophy in Film and Literature

3 Credit(s)

This course will approach film and literature as a manifestation of thought which contains and reveals philosophical reflection and inquiry. The course will provide an exploration of the particular medium that is film, rendering more accessible its unique ways of advancing meaning through the combined and controlled use of color, texture, sound, perspective, transitions, and time, as well as narrative content. Equally, literary pieces will provide an exploration of aspects of the human condition and significant philosophical inquiry through narration, symbolism, tone, and style. Topics to be explored include: Metaphysics, Epistemology, Social/Political Philosophy, Absurdism and Existentialism, Morality and Choice/Free Will, Self and Identity, and Aesthetics.

PHIL 304 - Religions of the Western World

3 Credit(s)

A survey of major religious traditions of the west and their early influences. The course will cover but is not limited to Zoroastrianism, Mithraism, Manichaeism, Greek and Roman, Judaism, Christianity, Islam.

PHIL 379 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

PHIL 436 - American Thought

3 Credit(s)

The historical, philosophical, and literary ideas that have influenced American life and thought. Same as POLS 436.

PHIL 466 - Ancient Political Theory

3 Credit(s)

The first course of a two-semester course sequence designed to provoke philosophical reflection regarding the perennial, and still fundamental, questions about man in relation to the state. The first semester will focus on the period from Plato to St. Thomas. Same as POLS 467.

PHIL 467 - Modern Political Theory

3 Credit(s)

The second course of a two-semester course sequence designed to provoke philosophical reflection regarding the perennial, and still fundamental, questions about man in relation to the state. The second-semester course will treat thinkers for Machiavelli through Marx. Same as POLS 467.

PHIL 479 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

Minor in Physics

Go to: Engineering and Computer Science

Required Courses

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T

AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

PHYS 306 - Modern Physics

4 Credit(s)

A survey of topics in modern physics including: special relativity, properties of electromagnetic radiation, and introduction to quantum mechanics with applications to barriers and atoms. Additional topics vary from year to year and may include statistical mechanics, solid state physics, properties on nuclei and their transformations, natural and induced radioactivity, and elementary particles. Offered spring semesters of even years.

Prerequisite(s):

PHYS 232 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

AND

CHEM 131 Minimum Grade: C- OR T

AND

CHEM 132 Minimum Grade: C- OR T

- PHYS XXX Electives approved by the department chair (4 hours)

Minor in Political Science

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

Degree Requirements

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

15 Elective Credits Chosen in Consultation with Department Head

Minor in Psychology

Go to: Psychology

A minor in psychology is a great complement for many majors, especially in fields like nursing and business where today's employers are putting more and more emphasis on interpersonal skills. The minor will provide a broad overview of several important areas in psychology, all of which will help students appreciate why people behave in certain ways.

9 Credits from the Following

PSYC 204 - Child Development

3 Credit(s)

The goal of this course is to examine the interaction of heredity and environment on human development from conception through pre-adolescence. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Some topics include the birth process, early cognitive and language development, gender socialization, the impact of parenting styles, and moral reasoning.

Prerequisite(s):

PSYC 101 Minimum Grade: C or T

PSYC 205 - Adolescent and Adult Development

3 Credit(s)

This course continues the study of life-span development from adolescence through old age and death. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Topics include identity formation, sexual orientation, marriage, models of aging, changes in cognition, social developments, and coping with old age.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 230 - Psychology of Mental Health

3 Credit(s)

The purpose of this course is to provide students with the historical and social background necessary to understand mental health issues. Students will examine the psychodynamic, behavioral, and cognitive approaches related to the development and treatment of mental disorders and their classifications. Topics will include schizophrenia, depression, bipolar, and personality disorders.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 245 - Brain and Behavior**3 Credit(s)**

This course provides students with a basic overview of the biological processes underlying human behavior. This course begins by presenting fundamental nervous system structure and processes and concludes by examining the role of biology in complex behaviors. Clinical case studies are used to illustrate psychological and neurological disorders. Sample topics include evolution and genetics, neural communication, major brain structures and their functions, human brain damage, sleep and dreaming, drug addiction, memory and amnesia, and stress and illness.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 265 - Personalities in Perspective**3 Credit(s)**

This course provides an introduction to the psychodynamic, trait, behavioral, biological, cognitive and humanistic approaches to personality. Specific theories and current research within each approach are reviewed. The course covers such theorists as Freud, Jung, Erikson, Skinner, Bandura, Cattell, Allport, and May.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

Plus 9 Credits from any 300 or 400 Level Course

Minor in Sociology

Go to: Sociology

A Minor in Sociology (18 hours excluding SOC 201) is available through consultation with any sociology faculty member

Minor in Spanish

Go to: Languages, Literature, and Media Communication

Minor in Spanish (7 courses) available in consultation with any Spanish faculty member.

Minor in Sport Psychology

Go to: Psychology

A Minor in Sport Psychology Consists of the Following

KIN 302 - Sport Psychology

3 Credit(s)

Sport psychology is primarily concerned with the interaction between psychological variables and participation in sport and exercise. This course will review this interaction by addressing variables that affect the individual athlete, influence sport and exercise environments, shape group processes, enhance health and wellbeing, improve performance, and facilitate psychological growth and development in sport participants from diverse populations.

PSYC 205 - Adolescent and Adult Development

3 Credit(s)

This course continues the study of life-span development from adolescence through old age and death. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Topics include identity formation, sexual orientation, marriage, models of aging, changes in cognition, social developments, and coping with old age.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

KIN 341 - Human Motor Development

3 Credit(s)

This course is designed to educate Kinesiology majors in the principles of human motor behavior and its influence on cognitive, affective, and psychomotor development throughout the lifespan. It will introduce students to factors that affect the intellectual, social, emotional, and physical development, growth and maturation of individuals relative to motor acquisition and regression.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

AND

BIOL 206 Minimum Grade: C- OR T

PSYC 386 - Theory and Practice

3 Credit(s)

This course presents the historical underpinnings of the major theories and principles of learning, and how they are used in applied settings. Classic learning theories are contrasted with contemporary approaches. Students will learn cognitive behavioral assessment and intervention strategies. Topics include traditional behavior modification, as well as contemporary social learning theory and cognitive-behavioral change strategies.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

KIN 380 - Diversity, Equity Sport, and Society

3 Credit(s)

This course has a two-fold purpose: first, it is designed to provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask questions and think critically about sport as a part of society. This course will explore issues around diversity, equity and inclusion in sport and society.

PSYC 211 - Introduction to Statistics Lecture/Lab

4 Credit(s)

In this course, students will develop a working appreciation of statistical concepts and applications as employed in the behavioral sciences. The course presents descriptive and inferential statistics and their applications. The laboratory component of this course gives students an opportunity to develop skills in using statistical software.

Prerequisite(s):

PSYC 101 Minimum Grade: C- or T

AND

MATH 97 Minimum Grade: S-A or S-B or S-C or T

OR

MATH 99 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 121 Minimum Grade: C- or T

OR

MATH 140 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Plus One of the Following

PSYC 360 - Psychology of Gender

3 Credit(s)

This course will examine gender development from a variety of theoretical approaches, including evolutionary, cognitive, social learning, and cross-cultural. Topics will include how gender influences thinking, communication, interpersonal relationships, education, work, and family.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

PSYC 375 - Human Sexuality

3 Credit(s)

In this multidisciplinary course, students will be introduced to the physiological, medical, sociological, psychological, legal, ethical, moral, and educational facets of human sexuality. Topics in this course include male and female sexual anatomy and sexual response, contraception and disease control, sexually transmitted diseases, and sexual orientation.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 265 - Personalities in Perspective

3 Credit(s)

This course provides an introduction to the psychodynamic, trait, behavioral, biological, cognitive and humanistic approaches to personality. Specific theories and current research within each approach are reviewed. The course covers such theorists as Freud, Jung, Erikson, Skinner, Bandura, Cattell, Allport, and May.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

Minor in Taxation

Go to: Business

Degree Requirements

A minor in Taxation requires a minimum of 18 hours from the list below, completed with a grade of C- or T or better.

A Minimum 18 Credits from the Following

BUS 355 - Individual Income Taxation

4 Credit(s)

This course involves the study of federal income tax on individual and property transactions. Objectives of taxation are given major emphasis. The Internal Revenue Code is discussed in addition to textbook material in order to acquaint the student with the ultimate source of tax law. Income tax return problems and tax cases may be assigned to provide practical application of the tax law.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 358 - Accounting Ethics

3 Credit(s)

Ethics as it applies to the accounting and auditing professions and will be the focus of this course. Emphasis will be on the concept of independence, along with integrity, objectivity, ethical reasoning, and other core values necessary for a high level of professional ethics in the accounting profession.

Prerequisite(s):

BUS 306 Minimum Grade: C- OR T

BUS 371 - Payroll Accounting and Taxation

3 Credit(s)

This course is devoted to the principles of payroll computations and administration including creation and maintenance of payroll records as well as proper payroll tax depositing and reporting.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 377 - Agricultural Taxation

3 Credit(s)

This course is devoted to specific income tax laws associated with agricultural business to include farmers and ranchers both as individuals and as part of taxable entities.

Prerequisite(s):

BUS 355 Minimum Grade: C- OR T

BUS 455 - Entity Taxation

4 Credit(s)

Business 455 concentrates on the federal income tax consequences of the formation, normal operation, and the dissolution of corporations, partnerships, and fiduciaries. Other taxation problems of special interest may be covered.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 465 - Estate, Gift, and Fiduciary Tax Law

3 Credit(s)

This course will address the fundamentals of Estate, Gift, and Fiduciary tax law. Topics will include Federal Gift Tax, death transfer tax laws, and fundamentals and reporting returns for estates.

Prerequisite(s):

BUS 455 Minimum Grade: C- OR T

BUS 381 - Business Internship

1 to 3 Credit(s)

Junior standing and approval of the department chair required. The internships are planned, meaningful work experiences that are academic in nature. Supervision consists of a site supervisor who is a qualified professional in the business or organization where the internship is arranged and a faculty sponsor who is a full-time professor in the School of Business, usually from the student's major. The site supervisor evaluates the work performed by the student on the job. The faculty sponsor is responsible for maintenance of academic quality and assigns the course grade. (30 contact hours=1 credit hour)

OR

BUS 481 - Business Internship II

1 to 3 Credit(s)

Senior standing and approval of the Department Chair required. The internships are planned, meaningful work experiences that are academic in nature. Supervision consists of a site supervisor who is a qualified professional in the business or organization where the internship is arranged and a faculty sponsor who is a full-time professor in the School of Business, usually from the student's major. The site supervisor evaluates the work performed by the student on the job. The faculty sponsor is responsible for maintenance of academic quality and assigns the course grade (30 contact hours=1 credit hour).

BUS 179 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

OR

BUS 379 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

Note

*The internship placement must be approved by accounting faculty.

**A maximum of 3 credit hours may be applied to the Taxation minor.

Minor in Theatre

Go to: Theatre

The minor in theatre arts is offered for those who wish to be more effective in communicating the knowledge of their major. The minor is highly relevant and practical in combination with other majors such as business, government, sociology, English, guidance and counseling, music, journalism, education, speech correction, health, physical education and recreation, and all pre-professional studies. Courses are to be selected in consultation with the program chair.

Minor in Water Studies

Go to: Interdisciplinary Studies

Water is the "lifeblood" of the San Luis Valley, greatly impacting the people and communities here. Water underlies our connection to the environment and wildlife, culture and history, agriculture and economy, and the strong sense of place that is core to the identity of the people here.

Salazar Rio Grande del Norte Center
SalazarRioGrandeCenter@adams.edu
719-587-8154

Water Studies Minor Degree Plan (18 Credits)

Required Courses (6 Credits)

WATR 101 - Water Essentials: How Water Works

3 Credit(s)

This course is an introduction and overview of water in the West, from its basic chemical structure and physics as well as hydrology and water's role in nature to how water serves and is managed as a beneficial resource for people. This course introduces foundational concepts of water's functional properties, how humans have put water to work and how we have developed systems of water allocation, administration, and management, including an overview of core terminology, and fundamental principles of water management. The course will focus on the Western water environment and issues, with specific discussions on the application and administration of water in Colorado's Rio Grande Basin.

WATR 201 - Fundamentals and Functions of Water

3 Credit(s)

This course is the second in a two-course series emphasizing essential water education. It will expand on fundamental concepts of ground and surface water functions and management as introduced in the prerequisite course, WATR 101 Water Essentials: How Water Works in the West. The design of this course is to explore the hydrologic processes and cycle in terms of both ground and surface water; examine the environmental aspects of watersheds that affect the hydrologic output, including forest health, precipitation accumulation, and infrastructure regulating surface water runoff; examine and analyze the administration of water and agricultural water use, with a focus and field experiences in the San Luis Valley and Rio Grande Basin of Colorado. The course will include required field trips.

Prerequisite(s):

WATR 101 Minimum Grade: C- OR T

Electives (Choose 12 Credits)

ANTH 330 - Humans and Water

3 Credit(s)

This class will explore the relationship between humans and water through space and time, focusing on the American West. We will look at how different cultural groups interact with and manipulate water, as well as how they view the natural resource. In addition, we will analyze how changes in water resources influenced human cultures.

BUS 384 - Natural Resources/Water Law

3 Credit(s)

The goal of this course is to provide students with knowledge of the regulatory responsibilities related to agriculture production and operations with respect to natural resources and water. The course will cover federal, state, and local requirements as well as application to agribusiness endeavors.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 211 Minimum Grade: C- OR T

ECON 360 - Natural Resource Economics

3 Credit(s)

This course studies the usage of natural resources in the economy, the value of natural resources to society, and the allocation of renewable and nonrenewable resources. The course introduces economic theories for efficient management of natural resources and considers sustainability, conservation, and preservation. The course will consider resources, such as water, on a local scale as well as a global scale.

ENG 420 - Environmental Literature

3 Credit(s)

This course is a survey of environmental literature poetry, fiction, and non-fiction spanning from the beginning of the conservation movement with Thoreau through the modern environmental movement with Carson, and to the present day with a focus on sustainability and the Southwestern United States with attention paid to the environmental impacts on indigenous populations and minority groups and authors, particularly Latinx. Students will analyze, criticize, reflect, and write about the reading, but also reflect upon field visits to farms, ranches, monuments, and parks throughout the region.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

HIST 305 - The American West

3 Credit(s)

Historical survey of the Indian-, Hispanic-, and English-speaking groups of the West. Emphasis is on the frontier period.

HIST 340 - Water and Equity

3 Credit(s)

This course is an examination of water use and distribution among several cultures. Special attention will be devoted to Latino communities and current issues affecting aspects of equity in contemporary water policy.

OES 101 - Outdoor Recreation Essentials

3 Credit(s)

This course is a general introduction to outdoor recreation history, theories, natural resource management, and current trends in the outdoor recreation industry . Students are also introduced to essential outdoor skills for camping and backpacking including trip planning, equipment selection and care, food preparation, Leave No Trace environmental ethics, and risk management. Field trips are required including overnight trips.

OES 370 - Wildland Recreation Management

2 Credit(s)

This course immerses students into the field of recreation ecology. Hands-on experience participating in local stewardship projects with federal and state agencies will be a component of the course. Students will gain knowledge and experience with how agencies and organizations identify recreational impact oriented problems, collect data,

prioritize, allocate resources, and collaborate to accomplish conservation and stewardship objectives. Students will practice with professional approaches and strategies for planning and monitoring recreational use. Students are required to participate in a variety of learning experiences in various locations throughout the San Luis Valley.

Co-requisite(s): OES 370L

PHIL 320 - Water Ethics

3 Credit(s)

This class will explore the ethical concerns of water (re)production, usage, and distribution according to concepts of rights and responsibilities, socio-historical conditions, available resources, cultural usage, evaluation, and governance.

Minor in Women's and Gender Studies

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

Examine how ideas about gender and sexuality shape social roles and identities within a culture. With a choice of two tracks (Women's Studies and Gender and Sexualities) the minor in Women's and Gender Studies extends and enriches any major degree by heightening your awareness of the range of human experience, potential, and accomplishment.

Women's Studies Track

Students must take 2 required courses and 4 electives, as approved by the WGS advisor, for a total of 18 semester hours.

Required of All Minors, Who Are Advised to Take the Courses Early in Their Studies

WS 201 - Women's Studies

3 Credit(s)

An interdisciplinary analysis of women's position in society as presented through the disciplines of history, sociology, anthropology, theology, psychology, literature, and the fine arts. The course will examine theoretical approaches to the differential access to power between men and women and the existence of patriarchy in Western culture.

ENG 320 - Literature and Sexualities

3 Credit(s)

An examination of a variety of sexual identities and expressions as portrayed in literature.

Two of the Following Courses (6 Hours)

AR 367 - Women Artists in Art History

3 Credit(s)

A survey of women artists in the history of art from antiquity to the present.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

POLS 393 - Women, Politics, and Culture

3 Credit(s)

Interdisciplinary analysis of politics and culture. Course examines the role of gender in the political culture of the United States and selected societies in industrialized and developing nations. Of special interest to those wishing to pursue an interest in women's studies and/or cultural anthropology.

SOC 318 - Race, Class, and Gender

3 Credit(s)

The focus of this course is on the interrelated ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result and the dynamics of change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

THTR 329 - Women and Drama

3 Credit(s)

A survey of the history and literature associated with women in theatre. The course will include the history of actual women involved in the evolution of western and eastern theatre traditions as well as playscripts which deal with the subject of women's issues. There will be a strong emphasis on the incorporation of contemporary dramatic theory, especially feminist theory, to analyze dramatic texts. The course will cover Greek through Contemporary Drama.

PSYC 360 - Psychology of Gender

3 Credit(s)

This course will examine gender development from a variety of theoretical approaches, including evolutionary, cognitive, social learning, and cross-cultural. Topics will include how gender influences thinking, communication, interpersonal relationships, education, work, and family.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

AND

PSYC 204 Minimum Grade: C- OR T

AND

PSYC 205 Minimum Grade: C- OR T

AND

PSYC 211 Minimum Grade: C- OR T

One of the Following Courses (3 Hours)

ENG 403 - Shakespeare

3 Credit(s)

Combines study of comedies, histories, and tragedies.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

COMM 420 - Rhetoric of Popular Culture

3 Credit(s)

This course takes seriously the idea human discourse is inherently persuasive. Further, it takes seriously the idea that popular culture is still human culture, and therefore worthy of analysis to understand how it influences human relationships and political struggle. Students will examine the messages and persuasive discourse found in everyday "texts" in film, television, the Internet, music, technology, celebrity, fashion, and other modes of cultural consumption.

COMM 430 - Diversity in Media

3 Credit(s)

Students will analyze how US media represents traditionally marginalized people in the United States. The course will be primarily discussion based, with students and instructor working together to generate ideas and critique dominant ideologies.

Prerequisite(s):

COMM 350 Minimum Grade: C- OR T

One of the Following Courses (3 Hours)

ENG 385 - Women and Literature

3 Credit(s)

A survey of literature written by women beginning with Sappho and focusing on the western tradition. An introduction to feminist literary criticism.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

SOC 419 - Gender and Society

3 Credit(s)

The aim of the course is for students to become familiar with the continuing differences and inequalities between women and men in the contemporary United States, and to begin to explain why and how they occur through a sociological lens. Understanding gender as it relates to other social identities (for example, race, class and sexuality) is an important organizing framework of the course. Students will learn about the gendered arrangements in a variety of social contexts such as education, the media, work and the economy, and the family.

PSYC 375 - Human Sexuality

3 Credit(s)

In this multidisciplinary course, students will be introduced to the physiological, medical, sociological, psychological, legal, ethical, moral, and educational facets of human sexuality. Topics in this course include male and female sexual anatomy and sexual response, contraception and disease control, sexually transmitted diseases, and sexual orientation.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

HIST 320 - History of American Women

3 Credit(s)

This course examines the role of women in American History with special emphasis on how the story of women is told by historians over time. It examines not only the lives of many famous white women, but also the experience of women from various ethnicities and economic backgrounds. In addressing how Americans construct their understanding of women's lives in the U.S., the course will also reassess how focusing on women's lives might alter one's understanding of the broader patterns and interpretations of American History.

BUS 394 - Women and Power: Gender, Business & Leadership

3 Credit(s)

The rise of women into powerful leadership roles in business, politics, and entrepreneurship is among one of the most profound social transformations in recent decades. This course examines contemporary issues relevant to women as leaders. Topics include recent research on women and applied leadership in the workplace; skills and strategies for negotiation, coalition-building and influencing the career path to leadership, and discussions by women from diverse personal and professional backgrounds with similar levels of career achievement.

Gender and Sexualities Track

Students must take 2 required courses and 4 electives, as approved by the WGS advisor, for a total of 18 semester hours.

Required of All Minors, Who Are Advised to Take the Courses Early in Their Studies

ENG 320 - Literature and Sexualities

3 Credit(s)

An examination of a variety of sexual identities and expressions as portrayed in literature.

WS 201 - Women's Studies

3 Credit(s)

An interdisciplinary analysis of women's position in society as presented through the disciplines of history, sociology, anthropology, theology, psychology, literature, and the fine arts. The course will examine theoretical approaches to the differential access to power between men and women and the existence of patriarchy in Western culture.

Two of the Following Courses (6 credits)

COMM 420 - Rhetoric of Popular Culture

3 Credit(s)

This course takes seriously the idea human discourse is inherently persuasive. Further, it takes seriously the idea that popular culture is still human culture, and therefore worthy of analysis to understand how it influences human relationships and political struggle. Students will examine the messages and persuasive discourse found in everyday "texts" in film, television, the Internet, music, technology, celebrity, fashion, and other modes of cultural consumption.

COMM 430 - Diversity in Media

3 Credit(s)

Students will analyze how US media represents traditionally marginalized people in the United States. The course will be primarily discussion based, with students and instructor working together to generate ideas and critique dominant ideologies.

Prerequisite(s):

COMM 350 Minimum Grade: C- OR T

ENG 403 - Shakespeare

3 Credit(s)

Combines study of comedies, histories, and tragedies.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T
OR

ENG 210 Minimum Grade: C- OR T

PSYC 360 - Psychology of Gender

3 Credit(s)

This course will examine gender development from a variety of theoretical approaches, including evolutionary, cognitive, social learning, and cross-cultural. Topics will include how gender influences thinking, communication, interpersonal relationships, education, work, and family.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T
AND

PSYC 204 Minimum Grade: C- OR T
AND

PSYC 205 Minimum Grade: C- OR T
AND

PSYC 211 Minimum Grade: C- OR T

One of the Following Courses (3 credits)

AR 367 - Women Artists in Art History

3 Credit(s)

A survey of women artists in the history of art from antiquity to the present.

Prerequisite(s):

AR 105 Minimum Grade: C- OR T

HIST 320 - History of American Women

3 Credit(s)

This course examines the role of women in American History with special emphasis on how the story of women is told by historians over time. It examines not only the lives of many famous white women, but also the experience of women from various ethnicities and economic backgrounds. In addressing how Americans construct their understanding of women's lives in the U.S., the course will also reassess how focusing on women's lives might alter one's understanding of the broader patterns and interpretations of American History.

SOC 318 - Race, Class, and Gender

3 Credit(s)

The focus of this course is on the interrelated ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result and the dynamics of change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

THTR 329 - Women and Drama

3 Credit(s)

A survey of the history and literature associated with women in theatre. The course will include the history of actual women involved in the evolution of western and eastern theatre traditions as well as playscripts which deal with the subject of women's issues. There will be a strong emphasis on the incorporation of contemporary dramatic theory, especially feminist theory, to analyze dramatic texts. The course will cover Greek through Contemporary Drama.

One of the Following Courses (3 credits)

BUS 394 - Women and Power: Gender, Business & Leadership

3 Credit(s)

The rise of women into powerful leadership roles in business, politics, and entrepreneurship is among one of the most profound social transformations in recent decades. This course examines contemporary issues relevant to women as leaders. Topics include recent research on women and applied leadership in the workplace; skills and strategies for negotiation, coalition-building and influencing the career path to leadership, and discussions by women from diverse personal and professional backgrounds with similar levels of career achievement.

ENG 385 - Women and Literature

3 Credit(s)

A survey of literature written by women beginning with Sappho and focusing on the western tradition. An introduction to feminist literary criticism.

Prerequisite(s):

ENG 203 Minimum Grade: C- OR T

OR

ENG 210 Minimum Grade: C- OR T

POLS 393 - Women, Politics, and Culture

3 Credit(s)

Interdisciplinary analysis of politics and culture. Course examines the role of gender in the political culture of the United States and selected societies in industrialized and developing nations. Of special interest to those wishing to pursue an interest in women's studies and/or cultural anthropology.

PSYC 375 - Human Sexuality

3 Credit(s)

In this multidisciplinary course, students will be introduced to the physiological, medical, sociological, psychological, legal, ethical, moral, and educational facets of human sexuality. Topics in this course include male and female sexual anatomy and sexual response, contraception and disease control, sexually transmitted diseases, and sexual orientation.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

SOC 419 - Gender and Society**3 Credit(s)**

The aim of the course is for students to become familiar with the continuing differences and inequalities between women and men in the contemporary United States, and to begin to explain why and how they occur through a sociological lens. Understanding gender as it relates to other social identities (for example, race, class and sexuality) is an important organizing framework of the course. Students will learn about the gendered arrangements in a variety of social contexts such as education, the media, work and the economy, and the family.

Pre-Nursing Certificate

The Certificate of Completion of Pre-Nursing Prerequisites will allow students to demonstrate that they have successfully completed 51 pre-nursing credit hours successfully with a C or better. Successfully completing prerequisites allows students to be candidates for nursing school selection.

Complete the following Supporting/General Education Courses for Nursing with a Minimum Grade of C**Complete a First-Year Seminar Course****FYS 101 - First Year Seminar****1 to 3 Credit(s)**

First-year students launch into the Adams Experience through a First-Year Seminar (FYS) course. FYS will engage students by creating habits for success, learning to navigate college life, and build skills for success. Each FYS will focus on a unique topic that will be the theme of course discussions, experiences, and assignments. FYS will develop academic and social capital and support a successful transition into higher education, instill lifelong learning, and reinforce student persistence.

Complete all Courses**BIOL 125 - Nutrition GT-SC2****3 Credit(s)**

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 205 - Human Anatomy and Physiology I

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The integumentary, skeletal, muscular, and nervous systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Test - Minimum Score: 3 **OR** MATH 97 Minimum Grade: S or S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T and SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18 **OR** ENG 96 Minimum Grade: S or T

BIOL 206 - Human Anatomy and Physiology II

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The digestive, respiratory, circulatory, urinary, endocrine, and reproductive systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL 205 Minimum Grade: C- or T

OR

BIOL 210 Minimum Grade: C- or T

BIOL 215 - Microbiology for Health Sciences

4 Credit(s)

A lecture/laboratory course designed to fulfill requirements for pre-nursing and pre-pharmacy students as a practical introduction to microorganisms, especially bacteria and viruses, and their contribution to human health and disease. Laboratory exercises are designed to provide experience in handling microorganisms, bacterial identification, and other basic principles of microbiology. This course will not fulfill requirements for any of the biology degree tracks. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL-205 Minimum Grade: C- OR T

AND

CHEM-105 Minimum Grade: C- OR T

AND

CHEM-105L Minimum Grade: C- OR T

OR

CHEM-111 Minimum Grade: T OR C-

AND

CHEM-111L Minimum Grade: T OR C-

OR

BIOL-209 Minimum Grade: C- OR T

AND

BIOL-210 Minimum Grade: C- OR T

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T
OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

PSYC 233 - Lifespan Dev for Nurses

3 Credit(s)

This is a foundational course for nursing students in human growth and development. The goal of this course is to examine the interaction of heredity and environment on biological, cognitive, and social development from conception to death.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

Complete 1 of the Following Statistics Courses

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T
OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

PSYC 211 - Introduction to Statistics Lecture/Lab

4 Credit(s)

In this course, students will develop a working appreciation of statistical concepts and applications as employed in the behavioral sciences. The course presents descriptive and inferential statistics and their applications. The laboratory component of this course gives students an opportunity to develop skills in using statistical software.

Prerequisite(s):

PSYC 101 Minimum Grade: C- or T
AND

MATH 97 Minimum Grade: S-A or S-B or S-C or T

OR

MATH 99 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 121 Minimum Grade: C- or T

OR

MATH 140 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Complete 1 of the following Arts and Humanities Courses (GT-AH1, GT-AH2, or GT-AH3)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T
AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Complete 1 of the following History Courses (GT-HI1)

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Complete 1 of the following Mathematics Courses (GT-MA1)

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

Pre-Physical Therapy

Go to: Department of Kinesiology

Requirements

A physical therapy degree is an advanced degree program offered at selected universities. Some programs are at the master's degree level, but many are at the doctorate level. All require a bachelor's degree with a minimum GPA of 3.0 (average acceptance GPA of 3.5) and a GRE score higher than 1,500 (with a minimum of 500 in each section) for admission.

In addition, most require a minimum number of hours working with a physical therapist. The bachelor's degree may be in any major, but a set of core courses in the sciences and other disciplines is required. Often, a list of recommended courses is suggested. Students must check with the schools to which they will apply for specific requirements, preferably early in their undergraduate career, because of the wide diversity of requirements. This will facilitate scheduling of the required courses along with major and Undergraduate General Education Requirements.

Core Science and Math Courses Required for Many Programs Include

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 101L - Introductory Biology Lab

0 Credit(s)

Introductory Biology is a one-semester laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1**3 Credit(s)**

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

CHEM 131 - General Chemistry GT-SC1**4 Credit(s)**

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

BIOL 205 - Human Anatomy and Physiology I

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological

changes in disease. The integumentary, skeletal, muscular, and nervous systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Test - Minimum Score: 3 **OR** MATH 97 Minimum Grade: S or S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T and SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18 **OR** ENG 96 Minimum Grade: S or T

BIOL 206 - Human Anatomy and Physiology II

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The digestive, respiratory, circulatory, urinary, endocrine, and reproductive systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL 205 Minimum Grade: C- or T
OR

BIOL 210 Minimum Grade: C- or T

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 226 - College Physics II

5 Credit(s)

The second course of a two-semester lecture-laboratory sequence introducing the fundamental principles of physics. In the second semester, students will be introduced to the areas of electricity, electric circuits, optics, and topics in modern physics. Conceptual understanding as well as problem-solving techniques will be emphasized in the lecture. The laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture.

Prerequisite(s):

PHYS 225 Minimum Grade: C- OR T

Other Courses That May Be Required or Recommended

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

PSYC 204 - Child Development

3 Credit(s)

The goal of this course is to examine the interaction of heredity and environment on human development from conception through pre-adolescence. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Some topics include the birth process, early cognitive and language development, gender socialization, the impact of parenting styles, and moral reasoning.

Prerequisite(s):

PSYC 101 Minimum Grade: C or T

MATH 205 - Introduction to Statistical Methods

3 Credit(s)

Basic techniques of applied statistics, including data organization and presentation, experiment design, calculating statistical measures, choosing, applying, and interpreting statistical tests, correlation and regression, and software utilization.

Prerequisite(s):

MATH 104 Minimum Grade: C OR T
OR

MATH 106 Minimum Grade: C OR T

OR

MATH 107 Minimum Grade: C OR T

OR

MATH 120 Minimum Grade: C OR T

OR

Math Placement Test - Minimum Score: 4

PSYC 205 - Adolescent and Adult Development

3 Credit(s)

This course continues the study of life-span development from adolescence through old age and death. Issues in physical, cognitive, and social development from the individual and normative perspectives are explored. Topics include identity formation, sexual orientation, marriage, models of aging, changes in cognition, social developments, and coping with old age.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

PSYC 230 - Psychology of Mental Health

3 Credit(s)

The purpose of this course is to provide students with the historical and social background necessary to understand mental health issues. Students will examine the psychodynamic, behavioral, and cognitive approaches related to the development and treatment of mental disorders and their classifications. Topics will include schizophrenia, depression, bipolar, and personality disorders.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

CHEM 321 - Organic Chemistry

4 Credit(s)

A study of the relationship between structure and reactivity of carbon-containing compounds.

Prerequisite(s):

CHEM 132 Minimum Grade: C- OR T

Co-requisite(s): CHEM 321L

CHEM 321L - Organic Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM 321. Laboratory time will be divided among techniques, preparation, and mechanistic studies.

Co-requisite(s): CHEM 321

KIN 329 - Exercise Physiology

3 Credit(s)

This course presents an introduction and overview of the physiological bases of physical education, sport, and athletics. The effects of exercise on the various systems will be considered. Practical application of exercise science to physical fitness and athletic performance will be emphasized.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

Co-requisite(s): KIN-329L

KIN 340 - Kinesiology

3 Credit(s)

This course focuses on the nature of human movement as influenced by those motor factors, anatomical factors, and mechanical principles that apply at rest and in motion.

Prerequisite(s):

BIOL 112 Minimum Grade: C- OR T
OR

BIOL 205 Minimum Grade: C- OR T

AND

KIN 329 Minimum Grade: C- OR T

AND

KIN 329L Minimum Grade: C- OR T

CHEM 401 - Biochemistry

3 Credit(s)

A study of structural biochemistry. Course begins with a review of water, the lipophilic environment, noncovalent bonding, and bioenergetics. Topics include amino acids, peptides, proteins, nucleic acids, carbohydrates, and lipids. Enzymes are discussed with emphasis on mechanism and kinetics.

Prerequisite(s):

CHEM 322 Minimum Grade: C- OR T

Co-requisite(s): CHEM 401L

CHEM 401L - Biochemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-401. Laboratory time will be spent learning protein purification techniques and doing independent project work.

Co-requisite(s): CHEM-401

Note

Most schools require General Chemistry but some will allow CHEM 111 and CHEM 112 - Introductory Chemistry. MATH 106 and MATH 107 are pre- or co-requisites for General Chemistry and College Physics. A sufficiently high score on the mathematics portion of the ACT or SAT may waive these particular math requirements, but you need to take one math course as part of the Undergraduate General Education Requirements.

Associate of Arts

As part of the Graduation Requirements for Undergraduates, Complete:

General Education Requirements (31 Credits Total)

Area I. Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18
OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T
OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II. Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic

concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments,

and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III. Mathematics (3 credits)

MATH 104 - Finite Mathematics GT-MA1

3 Credit(s)

Topics covered include functions and their graphs, matrices, linear programming, probability, and descriptive statistics. Applications are presented from the areas of biology, business, behavioral sciences, economics, and the social sciences.

Prerequisite(s):

MATH 97 Minimum Grade: S-C or T

OR

MATH 99 Minimum Grade: S-C or T

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

ACT Math - Minimum Score: 19

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T

OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Area IV. Social and Behavioral Sciences/History (9 credits)

- at least one course must be a GT-SS*
- At least one course must be a GT-HII course
- the remaining course may come from either category
- Only one ECON course may be used towards the requirements in this General Education area

GT-SS* Courses

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

GT-HI1 Courses

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V. Physical and Natural Sciences (7 Credits)

One credit must be a lab:

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

CHEM 103 - Introduction to Forensic Chemistry GT-SC1

4 Credit(s)

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the

non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

CHEM 103L - Introduction to Forensic Chemistry Lab GT-SC1

0 Credit(s)

Required companion laboratory to CHEM 103.

Co-requisite(s): CHEM 103

CHEM 104 - Chemistry in Context GT-SC2

3 Credit(s)

This course is designed to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and in significant issues facing science, technology, and society.

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2

3 Credit(s)

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-

OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T

AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the

system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

29 Elective Credits

Associate of Arts, Social Studies Emphasis

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

As Part of the Graduation Requirements for Undergraduates, Complete:

General Education Requirements (31 Credits Total)

Area I. Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18
OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T
OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II. Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T
AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III. Mathematics (3 credits)

MATH 104 - Finite Mathematics GT-MA1

3 Credit(s)

Topics covered include functions and their graphs, matrices, linear programming, probability, and descriptive statistics. Applications are presented from the areas of biology, business, behavioral sciences, economics, and the social sciences.

Prerequisite(s):

MATH 97 Minimum Grade: S-C or T
OR

MATH 99 Minimum Grade: S-C or T

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

ACT Math - Minimum Score: 19

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T
OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law of Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T
OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T
OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1**5 Credit(s)**

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Area IV. Social and Behavioral Sciences/History (9 credits)

- at least one course must be a GT-SS*
- At least one course must be a GT-HI1 course
- the remaining course may come from either category
- Only one ECON course may be used towards the requirements in this General Education area

GT-SS* Courses**ANTH 201 - Cultural Anthropology GT-SS3****3 Credit(s)**

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ECON 255 - Macroeconomics Principles GT-SS1**3 Credit(s)**

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

GT-HI1 Courses

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V. Physical and Natural Sciences (7 Credits)

One credit must be a lab:

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

CHEM 103 - Introduction to Forensic Chemistry GT-SC1

4 Credit(s)

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

CHEM 103L - Introduction to Forensic Chemistry Lab GT-SC1

0 Credit(s)

Required companion laboratory to CHEM 103.

Co-requisite(s): CHEM 103

CHEM 104 - Chemistry in Context GT-SC2

3 Credit(s)

This course is designed to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and in significant issues facing science, technology, and society.

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T
OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2

3 Credit(s)

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-

OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1**1 Credit(s)**

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1**4 Credit(s)**

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T

AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1**1 Credit(s)**

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T

AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

Specific Courses Required for This Degree

- History - 9 Credits (in addition to those taken for General Education Area II):

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Government (3 Credits)

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ANTH 205 - Physical Anthropology

3 Credit(s)

The course will examine physical anthropology as a sub discipline of anthropology. The goal is to understand how the physical realities of being human affects the nature of culture. The central theme will be the evolution of humans from the earliest hominid forms to modern Homo sapiens. The course will focus on the mechanisms of evolution, an understanding of primate behavior in general, and the fossil evidence for hominid development.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

Philosophy (6 Credits)

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 202 - Ethics

3 Credit(s)

An examination of criteria governing ethical responses in typical situations as presented by representative thinkers. The application of principles in the development of reasonable standards of conduct and in the formulation of codes of ethics.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The

knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

Elective Courses

Students may, in consultation with the department chair of HAPSS, select enrichment courses with an HGP/HIST/POLS/PHIL/ANTH prefix, another course at the 100- to 200-level approved by the department chair, or any course from the menu above not taken to fulfill content area requirements.

Total completion of a minimum of 60 credits for this degree

Associate of Science

As Part of the Graduation Requirements for Undergraduates, Complete:

General Education Requirements (31 Credits Total)

Area I. Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T
OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II. Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T
AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III. Mathematics (3 credits)

MATH 104 - Finite Mathematics GT-MA1

3 Credit(s)

Topics covered include functions and their graphs, matrices, linear programming, probability, and descriptive statistics. Applications are presented from the areas of biology, business, behavioral sciences, economics, and the social sciences.

Prerequisite(s):

MATH 97 Minimum Grade: S-C or T
OR

MATH 99 Minimum Grade: S-C or T

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

ACT Math - Minimum Score: 19

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T
OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of

Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T

OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Area IV. Social and Behavioral Sciences/History (9 credits)

- at least one course must be a GT-SS*
- At least one course must be a GT-HI1 course
- the remaining course may come from either category
- Only one ECON course may be used towards the requirements in this General Education area

GT-SS* Courses

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

GT-HI1 Courses

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas

exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V. Physical and Natural Sciences (7 Credits)

One credit must be a lab:

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the

foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

CHEM 103 - Introduction to Forensic Chemistry GT-SC1

4 Credit(s)

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

CHEM 103L - Introduction to Forensic Chemistry Lab GT-SC1

0 Credit(s)

Required companion laboratory to CHEM 103.

Co-requisite(s): CHEM 103

CHEM 104 - Chemistry in Context GT-SC2

3 Credit(s)

This course is designed to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and in significant issues facing science, technology, and society.

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T
OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2

3 Credit(s)

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-

OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

18 Elective Credits from Business or the Sciences

11 Elective Credits

Associate of Science, General Business Emphasis

Go to: Business

As Part of the Graduation Requirements for Undergraduates, Complete:

General Education Requirements (31 Credits Total)

Area I. Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T
OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II. Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1**3 Credit(s)**

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3**3 Credit(s)**

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking**3 Credit(s)**

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1**3 Credit(s)**

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III. Mathematics (3 credits)**MATH 104 - Finite Mathematics GT-MA1****3 Credit(s)**

Topics covered include functions and their graphs, matrices, linear programming, probability, and descriptive statistics. Applications are presented from the areas of biology, business, behavioral sciences, economics, and the social sciences.

Prerequisite(s):

MATH 97 Minimum Grade: S-C or T

OR

MATH 99 Minimum Grade: S-C or T

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

ACT Math - Minimum Score: 19

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T

OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Area IV. Social and Behavioral Sciences/History (9 credits)

- at least one course must be a GT-SS*
- At least one course must be a GT-HI1 course
- the remaining course may come from either category
- Only one ECON course may be used towards the requirements in this General Education area

GT-SS* Courses

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

GT-HI1 Courses

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V. Physical and Natural Sciences (7 Credits)

One credit must be a lab:

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH

99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- OR BIOL-209 Minimum Grade: T OR BIOL-209 Minimum Grade: C- AND (CHEM-131 Minimum Grade: C- OR CHEM-131 Minimum Grade: T) OR (CHEM-111 Minimum Grade: C- OR CHEM-111 Minimum Grade: C- OR CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

CHEM 103 - Introduction to Forensic Chemistry GT-SC1

4 Credit(s)

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

CHEM 103L - Introduction to Forensic Chemistry Lab GT-SC1

0 Credit(s)

Required companion laboratory to CHEM 103.

Co-requisite(s): CHEM 103

CHEM 104 - Chemistry in Context GT-SC2

3 Credit(s)

This course is designed to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and in significant issues facing science, technology, and society.

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2

3 Credit(s)

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-

OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

Completion of the Following

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

- BUS or ECON electives (100- or 200-level): **3 Credit(s)**
- Electives: **4 Credit(s)**

Total completion of a minimum of 60 credits for this degree

Bachelor of Arts in Business Administration, General Business Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Bachelor of Arts in Elementary Education Licensure, Culturally and Linguistically Diverse Education (CLD) Emphasis

Go to: Bachelor of Arts in Elementary Education

Required CLD Courses

CLD 401 - Introduction to the Study of Language

3 Credit(s)

This course provides prospective teachers with an overview of the study of language and how it works. It is an introduction to the scientific study of language and linguistics. The course provides for examination of relevant theories of language and how language is acquired as well as cognitive, societal and cultural considerations affecting its use. Specific topics to be examined include: the structure of languages, grammatical constructs (e.g., morphology, syntax, semantics, phonetics, phonology, and discourse), the interactions between language use and social structures, and the representation of language in the brain. Instructional applications will be considered. The course presupposes no formal study or knowledge of language/ linguistics.

Prerequisite(s):

Clear Fingerprint background check

CLD 402 - Language and Culture

3 Credit(s)

This course explores the peculiar relationship between language and the cultural total of which the language is a part, including the connection between cultural identity and heritage language. It examines language variations within a community according to gender, age, geography, ethnicity, socioeconomic class and level of education. Specifically, the course deals with the linguistic factors characterizing differences in language and with the social and social-psychological variables associated with these differences. Attention is given to the different varieties of language within a speech community (e.g., dialect, register, and style) and the societal and cultural factors that define their use. Course content considers the educational, political and economic implications. The course presupposes no formal study or knowledge of language/ linguistics. Accordingly, the course focuses on the different ways people speak. It deals with the linguistic factors characterizing differences in language and with the social and social-psychological variables associated with these differences. Thus, having completed the course, students should (a) be aware of the different linguistic choices available to speakers in different social/ cultural contexts, (b) have an understanding of the factors

which influence the choosing of one variety over another and the societal implications of such choices, (c) gain an appreciation for language diversity and cultural pluralism and, for those in teacher education programs, and, for education majors, (d) be able to demonstrate ability to identify and adapt instructional applications that are responsive to learners from different cultural backgrounds.

Prerequisite(s):

Clear Fingerprint background check

CLD 403 - Second Language Acquisition

3 Credit(s)

Introduction to second language acquisition (SLA) theory and the application of SLA theory to second/foreign language teaching practices. Explores what it means to know a language and, hence, how one learns/ acquires a second language. The emphasis in the course is to provide an opportunity to become familiar with up-to-date major theories of language acquisition (e.g., linguistic, psychological, sociological, etc.). That is, what happens in the mind of L1 learners and expand to 2L learners. This is not a methodology course, though certain methods and approaches will be discussed as they are direct applications of 2L theories. Instead, students will be exposed to what research data show about the complex process of learning a second language, and to teach them how to rely on these data to understand a number of major models (theories) of 2LL and, as a result, be able to use this knowledge to evaluate different methods, materials and assessments for 2LL/CLD populations. The course presupposes no formal study or knowledge of language/ linguistics. As part of the course content, we will seek to foster cultural sensitivity to the diverse student population becoming increasingly prevalent in classrooms in the U.S. We will also be concerned with providing the basic skills needed to satisfactorily assess the suitability of diverse 2LL methodologies & programs to meet the needs of limited English proficiency (LEP) students. An underlying assumption of the course is that learning is a social process that takes place within the broader social milieu of the learner's speech community. Accordingly, 2L learners bring into the classroom diverse language and cultural backgrounds, as well as a unique set of competencies, skills, sensitivities, goals, and needs. In order to provide for a successful learning environment, teachers must be able to identify and relate to the diversity inherent in today's student population and be able to take affirmative steps towards addressing the needs of the students in their classrooms. Course content and activities will assist participants in developing a greater appreciation of democracy and diversity in the classroom as we prepare for a global society as reflected in current theories of 2L acquisition.

Prerequisite(s):

Clear Fingerprint background check

Select 3 Elective Courses

CLD 404 - TESOL Methods

3 Credit(s)

This course introduces students to the study, philosophy, aims and methods of teaching English as a second (or foreign language) with an emphasis upon the techniques and materials in current use. It aims at providing for examination of current theory and empirical data on language learning, as well as for scrutinizing pertinent pedagogical implications/ applications for the TESOL K-12/ CLD classroom intended to address the language needs of non-native speakers of English. In addition, the course reviews research-based instructional methodologies applicable to teaching language through the content areas. The course considers the large storehouse of information; currently available on how to successfully tap into this knowledge in order to develop and implement sound methodological approaches which will assist SL/ CLD learners in becoming proficient in the target language and successful in the academic content areas. Content addresses teachers' need to rely on effective instructional approaches and strategies that promote a climate that is conducive to opportunities for active involvement in learning about language, academic content, about classmates,

and about the whole world. The course examines a synthesis of current 2L theory that should serve as the basis for development, selection, and modification of suitable materials and methods that will predictably be conducive to successful learning in both the language and content area classroom.

Prerequisite(s):

Clear Fingerprint background check

CLD 405 - TESOL Reading

3 Credit(s)

This course introduces students interested in questions of language acquisition to the theories and practices relating to learning to read in a second language or second dialect. Topics included are models for acquiring foreign language reading skills, teaching strategies for second language/dialect literacy, evaluating literacy skills, current research about acquisition of literacy skills, and political and social implications of second language/dialect literacy. The content addresses specifics about teaching reading for ELL/ CLD populations in classrooms. Opportunity is provided for candidates to become familiar with resources and data on school populations. The main goal of this course is to assist practicing or prospective teachers to learn how to promote development or crucial reading skills among ELL students. The course seeks to reexamine the pedagogical issues central to the 2L reading classroom, to be able to select suitable materials, to develop appropriate reading activities, to identify valid assessment measures, and to plan effective reading lessons suitable for instruction of ESL/CLD students.

Prerequisite(s):

Clear Fingerprint background check

CLD 406 - TESOL Writing

3 Credit(s)

This course introduces students interested in questions of language acquisition to the theories and practices of learning to write in a second language or second dialect. Topics included are 2L literacy development, writing theory, writing strategies, and 2L writers and rhetorical concerns. In addition, content examines teaching methodologies for second language/dialect literacy, assessment/evaluation of literacy skills, current research about acquisition of literacy skills, and political, cultural and social implications of ESL/ CLD literacy development. The main goal of this course is to assist practicing or prospective teachers to develop proficiency in promoting development of crucial 2L literacy/ writing skills among English Language Learners (ELLs). Content is responsive to the need to reexamine pedagogical issues central to the 2L writing classroom, and also be able to select suitable materials, to develop appropriate activities that address both second language literacy and content area knowledge, to identify valid assessment measures, to integrate technology into classrooms and to plan effective writing lessons suitable to the 2L classroom. Lastly, as part of the course content, we will seek to foster cultural sensitivity to the diverse student population becoming increasingly prevalent in classrooms in the U.S. We will also be concerned with providing the basic skills needed to satisfactorily assess the suitability of diverse 2LL methodologies & programs to meet the needs of limited English proficiency (LEP) students. An underlying assumption of the course is that learning is a social process that takes place within the broader social milieu of the learner's speech community. Accordingly, 2L learners bring into the classroom diverse language and cultural backgrounds, as well as a unique set of competencies, skills, sensitivities, goals, and needs. They may also bring with them different levels of L1 literacy skills. In order to provide for a successful learning environment, teachers must be able to identify and relate to the diversity inherent in today's student population and be able to take affirmative steps towards addressing the needs of the students in their classrooms. Course content and activities will assist participants in developing a greater appreciation of democracy and diversity in the classroom as we prepare for a global society as reflected in current theories of 2L development for academic purposes.

Prerequisite(s):

Teacher Education Background Check Passed

CLD 407 - TESOL Tests & Measurements

3 Credit(s)

This course examines language assessments in TESOL/ CLD. Course contents is intended to provide a practical and comprehensive overview of the different phases and activities involved in developing and implementing sound, rational, and effective language assessment instruments and activities. The course recognizes the relevance of context, purposiveness, and realistic discourse in testing. Specifically, the initial segment of the course will emphasize an integrated approach to educating English language learners (ELL) students, which encompasses social, cognitive, academic as well as linguistic dimensions and how to better assess the language instruction needs of ESL/CLD students. The course will focus on the practical applications of fundamental assessment principles, as well as development and evaluation of teacher-generated instruments for placement and diagnosis. Content discusses various principles for guiding either practicing and prospective teachers through an assessment process mindful of standards-based instruction (e.g., dictation, cloze summary, oral interview, role-plays, portfolio assessment techniques) for teaching ESL/ CLD students at various levels. Specific topics addressed include, 1. Innovative means of assessing reading ability, 2. Standards and performance outcomes, 3. Evaluating writing & reading, 4. Computers in assessment, as well as computer-based tests, 5. Interpretation of summative assessments of content knowledge, 6. Administration and interpretation of the results of summative assessments of English language proficiency, 7. Development, administration and interpretation of the results of formative assessments, 8. Theoretical and practical foundations of assessment for CLD populations, 9. Practices and approaches to testing that is responsive to varied measurement contexts, 10. Evaluation of reliability and validity of measures, and a variety of techniques available that.

Prerequisite(s):

Clear Fingerprint background check

CLD 408 - Bilingualism

3 Credit(s)

This course is a study of what it means to be a bilingual child or adult. It explores both the mind's role in bilingualism and in language acquisition as well as societal considerations. It surveys educational systems' response to language variance among students and explores the social, academic and language learning consequences of growing up bilingual. Content seeks to familiarize students with various aspects of bilingual education and language contact from a social-psychological perspective. It aims at providing for analysis and evaluation of current theory and research on bilingualism, as well as for examination of pertinent pedagogical implications/applications. First, we are interested in both social and individual factors related to bilingualism. That is, how and why bilingualism originates both as an individual and a societal phenomenon, and the social-psychological consequences of the same. Accordingly, we will consider topics such as: language attitudes, language and nation, bilingualism and inter-group relations, speech style and social evaluation. Second, we will also consider some important aspects of language contact such as: linguistic borrowing; code switching; language maintenance and language shift; English as a language of wider communication; language and context; diglossia; conversational interactions; language policy; language and culture. Third, we will also examine some significant aspects of the psychology of bilingualism. Specific topics to be covered are: cognitive and sociocultural consequences of bilingualism; neurolinguistic aspects of language acquisition and bilingualism; theoretical and research issues of bilingual education; performance of bilingual children on standardized tests; alternative approaches to testing and assessment of bilinguals; the teaching of English to non-native English speakers in the state of Colorado. NOTE: A supervised field-based experience is a course requirement. Students will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained from the ASU Campus Card Office Prior to the beginning of the field experience component. Background check must be completed before classes begin. Lab assignments are off-campus; students are responsible for their own transportation.

Prerequisite(s):

Clear Fingerprint background check

CLD 479 - Special Topics

0.5 to 6 Credit(s)

Offered periodically to meet the needs of students.

Prerequisite(s):

Clear Fingerprint background check

Plus Additional Elementary Education Licensure Requirements from the School of Education

Bachelor of Arts in Elementary Education

Bachelor of Arts in Interdisciplinary Studies, Individualized program of study

Go to: Interdisciplinary Studies

Students design a degree program that intentionally combines coursework from two different disciplines.

The Bachelor of Arts in Interdisciplinary Studies degree allows students to design a program of study combining two subject areas. No more than 30 credits of coursework with the same prefix can be used to satisfy the combined 40 credits (20 + 20) needed for the emphasis areas (e.g. no more than 30 BUS credits, no more than 30 HIST credits, no more than 30 CHEM credits, etc. can be applied toward the emphases).

Area I (20 Credit Hours)

Area II (20 Credit Hours)

Requirements

- Courses applied toward the Undergraduate General Education Requirements cannot also be used for credit in an emphasis area.
- At least 15 of the required 42 upper-division hours must fall within the (combined) emphasis areas.
- Courses associated with emphasis areas must be completed with a grade of 'C-' or higher.
- At least 12 of the 40 credit hours associated with the emphasis areas must be Adams State University courses.
- At least 30 credit hours (of the required 120) must be Adams State University courses.

Bachelor of Arts in Media, Industry, and Communication (online only)

Go to: Languages, Literature, and Media Communication

Specific courses required for this degree:

Communication requirements (42 hours)

COMM 100 - Public Speaking

3 Credit(s)

Students will learn the theories behind and the techniques of public speaking. Students will compose, videotape, and upload speeches on various topics and various styles for peer and instructor critique. Students will also learn about the various models of public speaking and the fundamentals of communication theory.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

COMM 230 - Media Writing

3 Credit(s)

Students will survey the fundamental types of media writing, including inverted pyramid news writing, feature writing, blogging, and screenplays. News literacy will also be covered.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

COMM 293 - Media Practicum

3 Credit(s)

Students will work hands-on to learn various media industry-related skills. Students will deejay for Grizz Sound, and/or create podcasts, write for The Paw Print, and create a short video piece.

Prerequisite(s):

COMM 230 Minimum Grade: C- OR T

COMM 327 - Social Media

3 Credit(s)

Surveys the history of the early Internet and the transition to Web 2.0. Students will apply this knowledge by designing, creating, and developing social media presence for non-profits, local municipalities, etc., and training the recipients on how to maintain their social media presence

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

COMM 345 - Business of Radio and TV

3 Credit(s)

This course is designed for majors of Communication & Media, Media Industry & Communication, Public Relations, and other majors who are interested in careers in the radio and television industries. Students will study in-depth as to how the radio and television industries operate.

COMM 355 - Public Relations and Strategic Communication

3 Credit(s)

Students will study the theoretical and practical elements of the field of public relations and the use of strategic communication. Student will then compose public relations materials applying the elements studied.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

COMM 365 - Digital Filmmaking

3 Credit(s)

This course covers the aesthetics and practice of narrative, documentary, and experimental media production using a variety of digital filmmaking tools including digital photography, digital video, audio recorders, and editing software. Students will complete video products they can post to YouTube and similar sites.

Prerequisite(s):

COMM 230 Minimum Grade: C- OR T

COMM 380 - Spanish Media

3 Credit(s)

Students will examine the issues facing Spanish-speaking media in the United States, as well as its business model and

the skills needed to enter the field. Bilingual recommended but not required.

Prerequisite(s):

COMM 345 Minimum Grade: C- OR T

COMM 425 - Media Research Methods

3 Credit(s)

Students will examine the prominent methods of media research, including quantitative and qualitative research, reliability and validity, specific methods used in the industry, the Nielsen ratings, and market trends.

Prerequisite(s):

ENG 102 Minimum Grade: C-

COMM 430 - Diversity in Media

3 Credit(s)

Students will analyze how US media represents traditionally marginalized people in the United States. The course will be primarily discussion based, with students and instructor working together to generate ideas and critique dominant ideologies.

Prerequisite(s):

COMM 350 Minimum Grade: C- OR T

COMM 457 - First Amendment and Copyright

3 Credit(s)

This course explores the First Amendment of the U.S. Constitution and current U.S. copyright laws, and how they apply to and affect both media practitioners and U.S. citizens.

Prerequisite(s):

COMM 255 Minimum Grade: C- OR T
AND

COMM 275 Minimum Grade: C- OR T

COMM 496 - Communication Internship

1 to 3 Credit(s)

Advanced communication students will work in a pre-employment capacity in the field of communications/journalism (broadcasting, video, print, satellite, or computing), applying learned skills in a working environment.

Note

An E-Portfolio of the student's work must be submitted during the senior year.

Guidelines for assembling the portfolio and deadlines for submissions are available from the department chair, the program coordinator or major advisor.

A minor in an area of specialization is recommended.

A minor in business or marketing is especially recommended.

Students must have at least 42 credit hours in 300 or 400 level courses to graduate.

Students must take the online interdisciplinary first year seminar and capstone.

Bachelor of Arts in Sociology, Criminology Emphasis

Go to: Sociology

Note for Sociology Students

- Completion of SOC 201 is a prerequisite for all other sociology courses.
- All Sociology Majors must meet the requirements of the Local Writing Assessment in Sociology as well as the Internship, ePortfolio, and Final Review.

Sociology Required Courses

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

SOC 245 - Criminology

3 Credit(s)

Criminology is an introductory course to the study of crime and criminal behavior with special emphasis on theories of crime and delinquency causation, rates and extent of crime, and social control agents (i.e., the police, courts, and "corrections"). Special topics examined may include gangs, white-collar crimes, property crimes, victimless crimes, and organized crime.

SOC 251 - Social Problems

3 Credit(s)

This course is designed to provide the student with a survey of selected contemporary social problems. Social problems addressed in the class may include poverty, addiction and substance abuse, mental health, violence with a focus on family violence, crime, teen sexuality and pregnancy, and health care issues. The causes, severity, and consequences of

the selected social problems are explored. In addition, strategies for alleviating social problems are presented.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

LS 225 Minimum Grade: C- OR T

SOC 255 - Research And Writing in Sociology

3 Credit(s)

This introductory course in social research and writing in sociology offers an overview of how sociologists study the social world, research social phenomena, and write about their findings. This class provides an overview of knowledge production and methods used by sociologists to develop a research agenda, test hypotheses, and refine theories and sociological inquiry. Students will gain the tools needed to conduct social research while also developing the skills necessary to read and critically evaluate sociological research. Students will learn fundamental concepts and mixed methods approach to sociological research. Students will summarize research and identify (1) the research question, (2) assumptions and propositions of the theory, (3) specific hypothesis, (4) methods used, and (5) the findings and results.

Prerequisite(s):

SOC 201 minimum grade C-

SOC 311 - Social Statistics

4 Credit(s)

This course presents a general overview of the statistical methods most commonly used in sociology and the social sciences. As a laboratory component, students will become proficient in SPSS, a computer program designed to aid statistical analysis. These skills will enable the student to read popular applications of statistics in the media with a critical eye; assess the use of statistics in the professional sociological literature; and use statistical tools to answer the sociological questions of interest.

Prerequisite(s):

SOC 255 Minimum Grade: C-
AND

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

SOC 318 - Race, Class, and Gender

3 Credit(s)

The focus of this course is on the interrelated ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result and the dynamics of change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 395 - Pre-Professional Seminar

2 Credit(s)

This course provides an introduction to the profession of sociology and the various career options available to graduates. Occupational and graduate school options are explored in detail through library research, presentations, observational and volunteer experiences, and informational interviews. Skills for job interviewing, resume development, and professional correspondence are explored.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 445 - Sociological Theory

3 Credit(s)

The major theories of society are covered in their classical and contemporary forms.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 455 - Qualitative Research Methods

4 Credit(s)

This course is designed to expose students to a variety of qualitative research methods. Students will be instructed in the fundamentals of research design and implementation, including ethical considerations. Students will read and study the research projects of selected sociologists. Students will engage in multiple hands-on activities to practice research methods. Each student will design a qualitative research project. In the lab component of the course, students will analyze and interpret qualitative data. Finally, students will learn to conduct content analysis, and use grounding theory to code and analyze their data and write a final project report. This course includes a lab day each week and is a 4-credit course.

Prerequisite(s):

SOC 201 Minimum Grade: C-
AND

SOC 255 Minimum Grade: C-

SOC 493 - Internship in Sociology

3 Credit(s)

Students in Sociology are placed at an internship site in the community and conduct a mentored capstone case study. Ninety hours of service with the agency are required. The student is supervised by both a Sociology faculty member and a representative from the human service agency. Instructor approval required for registration purposes.

Prerequisite(s):

Special permission and senior standing.

Criminology Emphasis

SOC 346 - Criminal Justice

3 Credit(s)

The focus of this course is on the organizational structures and social processes of the American criminal justice system. It will examine criminal law, policing, courts, and corrections.

SOC 447 - Correctional Systems

3 Credit(s)

This course will focus on corrections as one of the components of the American criminal justice system and its operation within a democratic form of government. The philosophical and historical underpinnings of punishment and correction will be analyzed and compared (e.g., punishment vs. rehabilitation).

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

SOC 346 Minimum Grade: C- OR T

Choose 1 of the following electives

SOC 347 - Juvenile Delinquency

3 Credit(s)

This course describes the nature of delinquency, including the trends, characteristics, and causes of juvenile delinquency. In addition, the course will examine theories of delinquency, social influences on delinquency, historical and contemporary overviews of the juvenile justice system, and the juvenile justice process from police involvement to the court system and corrections. Finally, methods of treatment and prevention will be identified.

SOC 348 - Women and Crime

3 Credit(s)

This course will address the role women play as criminals, victims, and professionals in the criminal justice system. This course will examine the important intersection between gender and crime, exploring the nature and extent of women's involvement in the criminal justice system. The course will investigate and discuss the relationship between victimization and offending, and study the unique way women are involved in and impacted by the criminal justice

system, with case study examples from real crimes.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 444 - Deviance and Control

3 Credit(s)

The sociology of deviance and control examines the nature of rule-making and rule-breaking in modern societies. The course includes theoretical considerations of the causes and consequences of deviance.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

Choose 2 Courses from these Sociology Electives

SOC 279 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

SOC 305 - Rural Sociology

3 Credit(s)

The purpose of this course is to introduce some of the social, political, environmental, and economic problems and prospects associated with rural America. Special attention will also be given rural community services and social institutions, with some focus on the San Luis Valley and other parts of rural Colorado.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 315 - Sociology of Education

3 Credit(s)

This course explores the relationship between education and society with special emphasis on the effects of this relationship on the lives of students in the American education system.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 320 - Marriages and Families

3 Credit(s)

This course will provide an overview of the family from a sociological perspective. The family is considered to be one of the most private and pervasive institutions in society. All of us have had contact with at least one family, and many

of us will be involved in several different families during our lifetime. Our experiences point to the numerous transformations in family life. To obtain a better understanding of these changes, recent sociological research and data on the family will be utilized in this course. In addition to examining the history of the family, the course will study the contemporary family and its diversity. The course will examine traditional marriage/family arrangements and alternative processes of mate selection and family formation. Finally, the course will examine parenting, the relationship between work and family, divorce and reconstituted families.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 345 - Women, Sport, and Society

3 Credit(s)

This course will explore how women have been involved in sports and athletics, how they have fought to claim recognition and legitimacy among historically male dominated settings, and how they continue to shape sports and the role of women in society. We will explore a wide variety of topics in society related to women in sports including historical influences, equitable access, characteristics of female sport participation, sport opportunities, and sport leadership. Topics will include Title IX, female bodies and physiology, sport diversity, gender identity, women's sport and aging, disabilities, sport and sexual violence, media and women's portrayal in sports, competitive sports in high school, college, and professional leagues, and marketing women's sports.

SOC 347 - Juvenile Delinquency

3 Credit(s)

This course describes the nature of delinquency, including the trends, characteristics, and causes of juvenile delinquency. In addition, the course will examine theories of delinquency, social influences on delinquency, historical and contemporary overviews of the juvenile justice system, and the juvenile justice process from police involvement to the court system and corrections. Finally, methods of treatment and prevention will be identified.

SOC 348 - Women and Crime

3 Credit(s)

This course will address the role women play as criminals, victims, and professionals in the criminal justice system. This course will examine the important intersection between gender and crime, exploring the nature and extent of women's involvement in the criminal justice system. The course will investigate and discuss the relationship between victimization and offending, and study the unique way women are involved in and impacted by the criminal justice system, with case study examples from real crimes.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 365 - Race and Ethnicity in the U.S.

3 Credit(s)

This course provides a sociological approach to race and ethnic relations in the U.S. today. This course introduces the basic sociological theories and perspectives related to the study of race and ethnicity, the histories, and present status of different racial and ethnic groups in the United States and raises questions about continuing racial discrimination and

inequality in our society. Issues of defining race, racial identity, interpersonal and institutional discrimination, segregation, and affirmative action (among others) are explored.

SOC 370 - Poverty and Wealth

3 Credit(s)

This course examines the historical and socio-cultural factors which influence the creation and maintenance of poverty and wealth. Emphasis will be on structural factors and theoretical explanations of poverty and inequality. This course will also focus on the implications for policy and social programs aimed at poverty and other social class issues. In addition, there will be exploration of systems of power, privilege, and domination that are central to the American social structure. Finally, the issues of empowerment, resistance, and solutions to social inequality will be assessed.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

SOC 251 Minimum Grade: C- OR T

SOC 379 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

SOC 391 - Sociology of Religion

3 Credit(s)

This course will introduce students to an examination of religion through sociological inquiry and imagination. Students will learn how sociologists study religion and will apply classical and contemporary sociological theories to understand both personal religious experiences/identities and organized religion as a social phenomenon. The course explores socialization into religions, the processes of conversion and apostasy, and various forms of organizational structures for religious groups. Other issues to be explored include how religious identity and structure connect to gender, race, sexuality, and social class; competition and conflict between different religious groups; as well as the tension between religion as a social institution and secularization trends in the contemporary US.

Prerequisite(s):

Junior standing

SOC 401 - Self & Society

3 Credit(s)

This course will look at social psychology from a sociological perspective. More specifically, students will utilize the symbolic interactionist theory to examine how identities, selves, social life, and social reality are products of ongoing social interactions.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 419 - Gender and Society

3 Credit(s)

The aim of the course is for students to become familiar with the continuing differences and inequalities between women and men in the contemporary United States, and to begin to explain why and how they occur through a sociological lens. Understanding gender as it relates to other social identities (for example, race, class and sexuality) is an important organizing framework of the course. Students will learn about the gendered arrangements in a variety of social contexts such as education, the media, work and the economy, and the family.

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 430 - Social Movements

3 Credit(s)

This course is designed to provide an analysis of social movements on a broad array of topics including issues of how they form, why they form, when are they successful, and whether they change society. We will be looking at broader historical movements from the civil rights movement, the environmental movement and the feminist movement as well as more recent movements, on race, class and gender issues. We will look at how they relate to diversity and equity, social justice, globalization, and cultural change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 440 - Diversity in Media

3 Credit(s)

Students will analyze how US media represents traditionally marginalized people in the United States. The course will be primarily research, case study, and discussion based, with students and instructor working together to generate ideas and critique dominant ideologies.

SOC 444 - Deviance and Control

3 Credit(s)

The sociology of deviance and control examines the nature of rule-making and rule-breaking in modern societies. The course includes theoretical considerations of the causes and consequences of deviance.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 479 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

Note:

- For students choosing the Criminology emphasis: SOC 352, SOC 370, and SOC 470 are also available as elective courses.
- For students choosing the Social Work emphasis: SOC 346, SOC 347, and SOC 447 are also available as elective courses.

Bachelor of Arts in Sociology, Social Work Emphasis

Go to: Sociology

Note for Sociology Students

- Completion of SOC 201 is a prerequisite for all other sociology courses.
- All Sociology Majors must meet the requirements of the Local Writing Assessment in Sociology as well as the Internship, ePortfolio, and Final Review.

Sociology Required Courses

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

SOC 245 - Criminology

3 Credit(s)

Criminology is an introductory course to the study of crime and criminal behavior with special emphasis on theories of crime and delinquency causation, rates and extent of crime, and social control agents (i.e., the police, courts, and "corrections"). Special topics examined may include gangs, white-collar crimes, property crimes, victimless crimes, and organized crime.

SOC 251 - Social Problems

3 Credit(s)

This course is designed to provide the student with a survey of selected contemporary social problems. Social problems

addressed in the class may include poverty, addiction and substance abuse, mental health, violence with a focus on family violence, crime, teen sexuality and pregnancy, and health care issues. The causes, severity, and consequences of the selected social problems are explored. In addition, strategies for alleviating social problems are presented.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

LS 225 Minimum Grade: C- OR T

SOC 255 - Research And Writing in Sociology

3 Credit(s)

This introductory course in social research and writing in sociology offers an overview of how sociologists study the social world, research social phenomena, and write about their findings. This class provides an overview of knowledge production and methods used by sociologists to develop a research agenda, test hypotheses, and refine theories and sociological inquiry. Students will gain the tools needed to conduct social research while also developing the skills necessary to read and critically evaluate sociological research. Students will learn fundamental concepts and mixed methods approach to sociological research. Students will summarize research and identify (1) the research question, (2) assumptions and propositions of the theory, (3) specific hypothesis, (4) methods used, and (5) the findings and results.

Prerequisite(s):

SOC 201 minimum grade C-

SOC 311 - Social Statistics

4 Credit(s)

This course presents a general overview of the statistical methods most commonly used in sociology and the social sciences. As a laboratory component, students will become proficient in SPSS, a computer program designed to aid statistical analysis. These skills will enable the student to read popular applications of statistics in the media with a critical eye; assess the use of statistics in the professional sociological literature; and use statistical tools to answer the sociological questions of interest.

Prerequisite(s):

SOC 255 Minimum Grade: C-
AND

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

SOC 318 - Race, Class, and Gender

3 Credit(s)

The focus of this course is on the interrelated ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result and the dynamics of change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 395 - Pre-Professional Seminar

2 Credit(s)

This course provides an introduction to the profession of sociology and the various career options available to graduates. Occupational and graduate school options are explored in detail through library research, presentations, observational and volunteer experiences, and informational interviews. Skills for job interviewing, resume development, and professional correspondence are explored.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 445 - Sociological Theory

3 Credit(s)

The major theories of society are covered in their classical and contemporary forms.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 455 - Qualitative Research Methods

4 Credit(s)

This course is designed to expose students to a variety of qualitative research methods. Students will be instructed in the fundamentals of research design and implementation, including ethical considerations. Students will read and study the research projects of selected sociologists. Students will engage in multiple hands-on activities to practice research methods. Each student will design a qualitative research project. In the lab component of the course, students will analyze and interpret qualitative data. Finally, students will learn to conduct content analysis, and use grounding theory to code and analyze their data and write a final project report. This course includes a lab day each week and is a 4-credit course.

Prerequisite(s):

SOC 201 Minimum Grade: C-
AND

SOC 255 Minimum Grade: C-

SOC 493 - Internship in Sociology

3 Credit(s)

Students in Sociology are placed at an internship site in the community and conduct a mentored capstone case study. Ninety hours of service with the agency are required. The student is supervised by both a Sociology faculty member and a representative from the human service agency. Instructor approval required for registration purposes.

Prerequisite(s):

Special permission and senior standing.

Social Work Emphasis

SOC 352 - Social Work Practices

3 Credit(s)

This course is an introduction to the nuts-and-bolts of social work practice. The course is designed with several general objectives in mind: (1) to familiarize the student with specific techniques of social work such as the person-in-environment approach and case management, (2) to provide a fundamental understanding of roles of community and family in social work practice, (3) to explore the needs of selected special populations in the community, (4) to identify the biological, psychological, and social influences on development and behavior across the life cycle, and (5) to introduce the student to fundamental social work practice skills.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

SOC 251 Minimum Grade: C- OR T

SOC 470 - Social and Public Programs

3 Credit(s)

This course analyzes the historical development, current content, and adequacy of social welfare policies in the United States. Specific policy areas to be discussed include income maintenance (including social insurance and public assistance), mental health, health care, and aging.

Prerequisite(s):

SOC 352 Minimum Grade: C- OR T

Choose 1of the following electives

SOC 320 - Marriages and Families

3 Credit(s)

This course will provide an overview of the family from a sociological perspective. The family is considered to be one of the most private and pervasive institutions in society. All of us have had contact with at least one family, and many of us will be involved in several different families during our lifetime. Our experiences point to the numerous transformations in family life. To obtain a better understanding of these changes, recent sociological research and data on the family will be utilized in this course. In addition to examining the history of the family, the course will study the contemporary family and its diversity. The course will examine traditional marriage/family arrangements and

alternative processes of mate selection and family formation. Finally, the course will examine parenting, the relationship between work and family, divorce and reconstituted families.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 370 - Poverty and Wealth

3 Credit(s)

This course examines the historical and socio-cultural factors which influence the creation and maintenance of poverty and wealth. Emphasis will be on structural factors and theoretical explanations of poverty and inequality. This course will also focus on the implications for policy and social programs aimed at poverty and other social class issues. In addition, there will be exploration of systems of power, privilege, and domination that are central to the American social structure. Finally, the issues of empowerment, resistance, and solutions to social inequality will be assessed.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

SOC 251 Minimum Grade: C- OR T

Choose 2 Courses from these Sociology Electives

SOC 279 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

SOC 305 - Rural Sociology

3 Credit(s)

The purpose of this course is to introduce some of the social, political, environmental, and economic problems and prospects associated with rural America. Special attention will also be given rural community services and social institutions, with some focus on the San Luis Valley and other parts of rural Colorado.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 315 - Sociology of Education

3 Credit(s)

This course explores the relationship between education and society with special emphasis on the effects of this relationship on the lives of students in the American education system.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 320 - Marriages and Families

3 Credit(s)

This course will provide an overview of the family from a sociological perspective. The family is considered to be one of the most private and pervasive institutions in society. All of us have had contact with at least one family, and many of us will be involved in several different families during our lifetime. Our experiences point to the numerous transformations in family life. To obtain a better understanding of these changes, recent sociological research and data on the family will be utilized in this course. In addition to examining the history of the family, the course will study the contemporary family and its diversity. The course will examine traditional marriage/family arrangements and alternative processes of mate selection and family formation. Finally, the course will examine parenting, the relationship between work and family, divorce and reconstituted families.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 345 - Women, Sport, and Society

3 Credit(s)

This course will explore how women have been involved in sports and athletics, how they have fought to claim recognition and legitimacy among historically male dominated settings, and how they continue to shape sports and the role of women in society. We will explore a wide variety of topics in society related to women in sports including historical influences, equitable access, characteristics of female sport participation, sport opportunities, and sport leadership. Topics will include Title IX, female bodies and physiology, sport diversity, gender identity, women's sport and aging, disabilities, sport and sexual violence, media and women's portrayal in sports, competitive sports in high school, college, and professional leagues, and marketing women's sports.

SOC 347 - Juvenile Delinquency

3 Credit(s)

This course describes the nature of delinquency, including the trends, characteristics, and causes of juvenile delinquency. In addition, the course will examine theories of delinquency, social influences on delinquency, historical and contemporary overviews of the juvenile justice system, and the juvenile justice process from police involvement to the court system and corrections. Finally, methods of treatment and prevention will be identified.

SOC 348 - Women and Crime

3 Credit(s)

This course will address the role women play as criminals, victims, and professionals in the criminal justice system. This course will examine the important intersection between gender and crime, exploring the nature and extent of women's involvement in the criminal justice system. The course will investigate and discuss the relationship between victimization and offending, and study the unique way women are involved in and impacted by the criminal justice system, with case study examples from real crimes.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 365 - Race and Ethnicity in the U.S.

3 Credit(s)

This course provides a sociological approach to race and ethnic relations in the U.S. today. This course introduces the basic sociological theories and perspectives related to the study of race and ethnicity, the histories, and present status of different racial and ethnic groups in the United States and raises questions about continuing racial discrimination and inequality in our society. Issues of defining race, racial identity, interpersonal and institutional discrimination, segregation, and affirmative action (among others) are explored.

SOC 370 - Poverty and Wealth

3 Credit(s)

This course examines the historical and socio-cultural factors which influence the creation and maintenance of poverty and wealth. Emphasis will be on structural factors and theoretical explanations of poverty and inequality. This course will also focus on the implications for policy and social programs aimed at poverty and other social class issues. In addition, there will be exploration of systems of power, privilege, and domination that are central to the American social structure. Finally, the issues of empowerment, resistance, and solutions to social inequality will be assessed.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

SOC 251 Minimum Grade: C- OR T

SOC 379 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

SOC 391 - Sociology of Religion

3 Credit(s)

This course will introduce students to an examination of religion through sociological inquiry and imagination. Students will learn how sociologists study religion and will apply classical and contemporary sociological theories to understand both personal religious experiences/identities and organized religion as a social phenomenon. The course explores socialization into religions, the processes of conversion and apostasy, and various forms of organizational structures for religious groups. Other issues to be explored include how religious identity and structure connect to gender, race, sexuality, and social class; competition and conflict between different religious groups; as well as the tension between religion as a social institution and secularization trends in the contemporary US.

Prerequisite(s):

Junior standing

SOC 401 - Self & Society

3 Credit(s)

This course will look at social psychology from a sociological perspective. More specifically, students will utilize the symbolic interactionist theory to examine how identities, selves, social life, and social reality are products of ongoing social interactions.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 419 - Gender and Society**3 Credit(s)**

The aim of the course is for students to become familiar with the continuing differences and inequalities between women and men in the contemporary United States, and to begin to explain why and how they occur through a sociological lens. Understanding gender as it relates to other social identities (for example, race, class and sexuality) is an important organizing framework of the course. Students will learn about the gendered arrangements in a variety of social contexts such as education, the media, work and the economy, and the family.

SOC 425 - Environment and Society**3 Credit(s)**

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 430 - Social Movements**3 Credit(s)**

This course is designed to provide an analysis of social movements on a broad array of topics including issues of how they form, why they form, when are they successful, and whether they change society. We will be looking at broader historical movements from the civil rights movement, the environmental movement and the feminist movement as well as more recent movements, on race, class and gender issues. We will look at how they relate to diversity and equity, social justice, globalization, and cultural change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 440 - Diversity in Media**3 Credit(s)**

Students will analyze how US media represents traditionally marginalized people in the United States. The course will be primarily research, case study, and discussion based, with students and instructor working together to generate ideas and critique dominant ideologies.

SOC 444 - Deviance and Control**3 Credit(s)**

The sociology of deviance and control examines the nature of rule-making and rule-breaking in modern societies. The

course includes theoretical considerations of the causes and consequences of deviance.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 479 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

Note:

- For students choosing the Criminology emphasis: SOC 352, SOC 370, and SOC 470 are also available as elective courses.
- For students choosing the Social Work emphasis: SOC 346, SOC 347, and SOC 447 are also available as elective courses.

Bachelor of Science / Masters of Business Administration - 5 Year Program

Go to: Business

The 5-year B.S./M.B.A. helps exceptional Adams State students get a head start in their career in business. The program provides a solid foundation for students to launch a successful career in business. The curriculum allows students several options so they can customize their degree to an emphasis in business most relevant to their career goals. Students must work closely with their advisor to determine appropriate courses for these emphases.

The B.S./M.B.A. provides a seamless transition from an undergraduate program to the graduate program, allowing students to cultivate and strengthen their business expertise and maintain the M.B.A. advantage that is sought after in today's highly competitive, global marketplace. The five-year B.S./M.B.A. program is designed for motivated students who are prepared for a streamlined, integrated academic experience that responds to the rapidly changing global environment of today's business world. The B.S./M.B.A. program is ideal for those who want to fast-track their careers while building sustainable skills with innovative and interactive curricula. Students are grounded in applications-based learning that engages new technologies, global perspectives, and ethics-based best practices.

Note: The B.S. portion of the B.S./M.B.A. program is offered either online or face to face. The M.B.A. portion of the program is ONLY offered online.

Admission Requirements for Combined Bachelor's/M.B.A. Degree Program

Undergraduates enrolled in a bachelor's degree program at Adams State University who have completed 75 credit hours of course work toward their degrees and have a cumulative GPA of 3.0 or above may apply for admission to a combined bachelor's/M.B.A. degree program. This program has been established to encourage students with strong scholarly interests to begin their M.B.A. program during their junior year and to provide flexibility in the scheduling and completion of undergraduate requirements along with their graduate course requirements for the M.B.A. degree.

The graduate degree will be awarded only after, or concurrently with, the award of Baccalaureate. There are two categories that could qualify a student for acceptance:

1. The student may be enrolled in either a graduate or undergraduate degree program, taking both undergraduate and graduate courses, with two degrees being conferred only when the requirements for both are completed. This student must be monitored and eligibility for certain financial aid programs may be restricted. A "500-Level Course Evaluation" form must be completed and approved by the M.B.A. director and the School of Business chair prior to registration. A student must have completed 90 credit hours prior to starting 500-level courses.
2. The student is an undergraduate taking graduate course(s) as part of their undergraduate degree program. The courses are being used to complete the undergraduate degree. This student is treated for financial aid purposes as a normal undergraduate student and no special financial aid processing is required.

Until students accumulate 120 total credit hours bachelor/M.B.A., they will be classified as undergraduates for financial aid and College Opportunity Fund (COF) purposes (COF applies to courses numbered 100, 200, 300, and 400 only).

Core Courses for both the BS and MBA portions of the Degree

Note:

- Courses required for emphases are not included in the Core Course Requirements
- ASU undergraduate/M.B.A. students may count up to 30 credits from 300-400-500 level (no more than 18 credits from 500 level) Business, Economics or Health Care Administration Courses.

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Master of Business Administration Core Requirements

BUS 500 - Leadership Skills for Managers

3 Credit(s)

This course teaches practical skills required for effective management at all levels of an organization, and is designed

to increase a learner's understanding of key concepts and procedural guidelines related to organizational management, human resource, and leadership. The purpose is to be equipped to deal effectively with managerial challenges dealing with people.

BUS 505 - Creating Consumer Value

3 Credit(s)

This course presents learners with a comprehensive approach to creating consumer value. This includes marketing and brand management in for-profit firms as well as identifying and meeting consumer needs in non-profit and governmental organizations. Topics include segmentation and targeting of consumers; the positioning levers of product, price, promotion, and distribution; and brand management.

ECON 505 - Managerial Economics

3 Credit(s)

This course demonstrates how economics theory is applied to national and international managerial decision-making. The course covers topics such as demand analysis, production and cost functions, market structure, managerial understanding of public policy, and international trade finance topics. Pre-req.-Undergraduate Economics course with a grade of C or higher.

BUS 520 - Managerial Accounting

3 Credit(s)

This course provides a review of financial reporting standards and statements and analysis of those financial statements. Managerial accounting principles will be explored as well as budgeting, cost allocation, accumulation, cost behavior, and relevant costs; revenues are approached from a managers' perspective. Prerequisite: undergraduate accounting course with a grade of C or higher.

BUS 525 - Financial Analysis

3 Credit(s)

Students will embark on studying basic financial principles and enhance that with understanding various valuation concepts and methods. Emphasis is also placed on capital budgeting and long term financing as well as working capital management. The course will blend time-tested finance principles and the latest advancements with the practical perspectives of the financial manager. Prerequisite: undergraduate accounting course with a grade of C or higher.

Prerequisite(s):

BUS 520 Minimum Grade: C

BUS 540 - Strategy

3 Credit(s)

In this course, learners examine tools and techniques for competitive analysis, strategic planning, and strategy implementation. Learners gain knowledge of the tools and concepts needed to develop a business strategy including macro environmental scanning, industry and competitive analysis, value chain analysis, SWOT analysis, identification of critical success factors and driving forces, and development of strategic alternatives and recommendations.

Bachelor of Science in Business Administration, Entrepreneurship Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Entrepreneurship Emphasis

BUS 315 - Sales and Sales Management

3 Credit(s)

This course is designed to introduce students to management techniques as they relate specifically to the marketing and sales area. Topics covered include: the selling process, compensation systems, motivation and leadership, time and territory management, sales forecasting, quotas, and evaluating the sales force.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 362 - Human Resource Management

3 Credit(s)

Analysis of techniques used to organize, motivate, and manage personnel in public or private organizations. Includes case studies and examines current literature and the current legal environment..

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial

plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

BUS 448 - Interactive/Social Media Marketing

3 Credit(s)

This course focuses on relationship marketing, interactive marketing, integration of consumer data, Internet marketing (E-commerce), media advertising, catalogs, mailing lists, telemarketing, and the use of direct marketing techniques to replace or enhance the traditional marketing methods of retail and direct sales.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 466 - Business Ethics Decision Making

3 Credit(s)

This course explores various ethical issues facing business leaders in modern society. Students will utilize current issues to analyze ethical dilemmas and decision-making processes common to modern organizations. Emphasizes critical thinking, critical reading, and the importance of professional ethics.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 467 - Creativity and Innovation

3 Credit(s)

Course objectives are to develop skills in generating new and original ideas, increase ability to convert ideas into action and success, and increase knowledge and skill in creative problem solving as applied to business scenarios.

Prerequisite(s):

BUS 361 Minimum Grade: C-

BUS 468 - New Business Venturing

3 Credit(s)

This course introduces students to starting and operating a business. Students will be exposed to how business interacts

with government, financial institutions, and society. This course will examine and study the process, challenges, risks, and rewards of starting up a new business. The student will be equipped with tools required to start their own business.

Prerequisite(s):

BUS 365 Minimum Grade: C-

Plus 6 Credits of 300- to 400-level business or economics courses approved by the student's advisor

Bachelor of Science in Business Administration, General Business Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T
AND

BUS 304 Minimum Grade: C- OR T
AND

BUS 361 Minimum Grade: C- OR T
AND

BUS 363 Minimum Grade: C- OR T
AND

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

Plus 30 credits from 300- to 400-level business, economics, or health care administration courses

Bachelor of Science in Business Administration, Health Care Administration Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

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3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Health Care Administration Emphasis

HCA 303 - Trends and Issues in Health Care

3 Credit(s)

This course is an introductory Health Care Administration course and will expose the student to the industry and its significant elements and trends of the current health care environment.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

HCA 305 - Health Care Marketing

3 Credit(s)

This course involves an analysis, evaluation, and implementation of marketing strategies within health care and managed-care environments. Designed to develop skills in segmenting customer and medical markets, brand products and services, enhance a communication strategy to the consumer, and develop pricing approaches. Methods and models of marketing fundamentals will be introduced.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 311 - Health Care Law and Ethics

3 Credit(s)

This course presents an overview of the legal and ethical issues faced by health care consumers, practitioners, and administrators. The course will introduce students to the legal aspects of health care at the federal, state, and local levels. Topics covered will include criminal and civil claims against health care providers, corporate and individual liability, and legal and ethical decision-making, individual liability, and legal and ethical decision-making. HCA 361 Health Care Administration. Instructor permission.

Prerequisite(s):

BUS 211 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 312 - Health Care Med Terminology

3 Credit(s)

This course will focus on the components of medical terms and the methods for analysis of word definitions. The emphasis will be on learning to define, pronounce, and spell medical terms using prefixes, suffixes, roots, and combining forms related to the anatomy and physiology of the human body. The course will include an introduction to operative, diagnostic, therapeutic, and symptomatic terminology of all body systems.

HCA 325 - Health Care Informatics

3 Credit(s)

This course is a study of record keeping practices in the hospital and physician's office. Emphasis is placed in hospital and medical staff organization, patient record content, procedures in filing, numbering and retention of patient records, quantitative analysis, release of patient information, forms control and design, indexes and registers, reimbursement, regulatory and accrediting agencies, and alternate health care delivery systems. Instructor permission required.

Prerequisite(s):

BUS 120 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

BUS 362 - Human Resource Management

3 Credit(s)

Analysis of techniques used to organize, motivate, and manage personnel in public or private organizations. Includes case studies and examines current literature and the current legal environment..

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

HCA 363 - Health Care Finance

3 Credit(s)

This course is devoted to the practical aspects of finance in health care, an examination of current practices in financial management of health care organizations, and managerial applications to specific problems facing health care managers. The first part of the course will focus on an overview of health care finance, managerial accounting, and financial analysis. The second part will continue with managerial accounting and financial analysis and will concentrate on the various tools used in financial management. Emphasis is placed on unique issues and concerns that result from the regulatory framework of health care organizations. At the conclusion of this course, the student should be able to discuss the financial structure, market forces, controls and techniques used in the health care management field, be able to read and analyze financial statements and budgets and have the skill to interpret financial and operating performance.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

HCA 402 - Public and Population Health

3 Credit(s)

This course consists of an examination of epidemiological concepts and methods of studying the distribution and determinants of morbidity and mortality in human population. The knowledge and skills acquired should enable one to understand and critically review scientific literature dealing with epidemiology concepts and measures. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 455 - Health Care Economics

3 Credit(s)

This course will examine health care decision-making and the functioning of health care markets in the U.S. The course is not designed as a pure economics theory course but instead emphasizes how you can frame and analyze various health issues using the principles of economics. By doing so, you will gain a powerful new perspective that will help you understand the decisions made by individuals and organizations in the face of scarce resources. Instructor permission.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 462 - Quality Management in Health Care

3 Credit(s)

Quality is an important aspect of health care; indeed, for most people, it is the most important aspect. Quality is defined in the dictionary as "degree of excellence" or "superiority in kind." Quality of care must be part of both the process and outcome of health care whenever possible. The issue is how does the system develop mechanisms to assure such quality? This course serves as an introduction to the process of quality management in health care organizations. Principles of total quality in health care will be discussed. Differentiation between quality assurance and quality management will also be presented. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 480 - Health Care Policy

3 Credit(s)

This course is an introduction to health policy. It will focus on how U.S. health policy is developed and will provide students with a general understanding of the policy making process and debates related major U.S. health care legislations.

Prerequisite(s):

HCA 303 Minimum Grade: C- OR T
AND

HCA 305 Minimum Grade: C- OR T

AND

HCA 363 Minimum Grade: C- OR T

Bachelor of Science in Business Administration, Management Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Management Emphasis

BUS 362 - Human Resource Management

3 Credit(s)

Analysis of techniques used to organize, motivate, and manage personnel in public or private organizations. Includes case studies and examines current literature and the current legal environment..

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

BUS 401 - Organizational Behavior

3 Credit(s)

Participants in the course will explore the theory of human relations in organizations. The emphasis will be on the application of behavioral science knowledge to contemporary organizational issues, which may include individual and group dynamics, motivation, leadership, organizational change, and development.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 418 - Leadership Strategies

3 Credit(s)

This course presents contemporary theories and approaches to leadership practices in modern organizations. Students learn how effective leadership can assist in the creation of a strong organizational culture and the implications external forces have on individual leadership development and continued growth.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 419 - Organizational Change/Develop

3 Credit(s)

The study of planned and unplanned change in organizations to include diagnosis, planning, and implementation of organizational change initiatives. Emphasis is on teamwork within organizations and survey development.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 466 - Business Ethics Decision Making

3 Credit(s)

This course explores various ethical issues facing business leaders in modern society. Students will utilize current issues to analyze ethical dilemmas and decision-making processes common to modern organizations. Emphasizes critical thinking, critical reading, and the importance of professional ethics.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

Plus 3 Credits from the following

ECON 425 - Economic Policy

3 Credit(s)

Study of the structure and functions of the U.S. economic system and the use of monetary, fiscal, and other policies to stabilize the economy. Emphasis on historical roots and the evolution into new behavioral economic ideas as well as the complex interplay of policy and economic forces.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

ECON 433 - Managerial Economics

3 Credit(s)

Application and integration of microeconomic theory and the tools of decision science to managerial decision-making. Particular emphasis placed on the economic differences caused by monopolies, cartels, and multi-national organizations and their domination of many industries. Understanding of game theory and new economic analysis tools.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

Plus 6 Credits of of 300 to 400 level business or economics courses approved by the student's advisor

Bachelor of Science in Business Administration, Marketing Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Marketing Emphasis

BUS 315 - Sales and Sales Management

3 Credit(s)

This course is designed to introduce students to management techniques as they relate specifically to the marketing and sales area. Topics covered include: the selling process, compensation systems, motivation and leadership, time and territory management, sales forecasting, quotas, and evaluating the sales force.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 335 - Consumer Behavior

3 Credit(s)

Study of consumer behavior as it relates to the marketing functions. Emphasis on the models of consumer behavior and their application to practical marketing problems.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 345 - Advertising

3 Credit(s)

Discusses the history, purposes, and regulations of the advertising industry. Topics covered include creative principles, media advantages and disadvantages, media planning, regulation of advertising, and coordination with other promotion activities.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 448 - Interactive/Social Media Marketing

3 Credit(s)

This course focuses on relationship marketing, interactive marketing, integration of consumer data, Internet marketing (E-commerce), media advertising, catalogs, mailing lists, telemarketing, and the use of direct marketing techniques to replace or enhance the traditional marketing methods of retail and direct sales.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 454 - Market Research & Information

3 Credit(s)

Study of the theory and methods used in marketing research to address marketing problems. May include the completion of a research project where students learn by performing a research project from problem formulation to writing a research report. Also prepares the students for evaluating research performed by others.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 460 - Marketing Management

3 Credit(s)

Twelve hours of marketing courses and senior status required. Capstone course in marketing. Study of the problems faced by marketing managers as they make decisions and develop policies.

Prerequisite(s):

BUS 454 Minimum Grade: C- OR T

Plus any 3 Courses from the Following

BUS 356 - Retailing

3 Credit(s)

Study of marketing and management problems faced in the operation of a retail business. Emphasis is given to techniques for solving problems in location, management, and merchandising, especially with the integration of Internet retailing (E-Tailing) as both a competitor and an extension of the storefront business.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 385 - Sports Marketing

3 Credit(s)

Illustrates the dynamic, progressive and influential nature of sports marketing. Explores the sport marketing concept as a consumer-driven, integrated, goal-oriented philosophy for a team, event, organization or athlete. Topics covered include: athletic endorsements, team sports, event sponsorships and alternative sports.

BUS 441 - International Marketing

3 Credit(s)

Analysis of opportunities, distinctive characteristics, and emerging trends in foreign markets, including exploration of alternative methods and strategies for entering foreign markets; organizational planning and control; impact of social, cultural, economic, and political differences; and problems of adapting American marketing concepts and methods. This is accomplished through real life planning and implementation of an international marketing plan designed to market a product or service in a foreign country or countries

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 449 - Marketing in the 21st Century

3 Credit(s)

This course provides the practical tools and strategies required to successfully leverage social networks, capitalize on their powerful word-of-mouth lift, and how to measure these interactive marketing efforts. These tools will be used on an actual social media marketing campaign for a business or non-profit entity. Current and future marketing tools will be discussed and evaluated.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

AND

BUS 448 Minimum Grade: C- OR T

HCA 305 - Health Care Marketing

3 Credit(s)

This course involves an analysis, evaluation, and implementation of marketing strategies within health care and managed-care environments. Designed to develop skills in segmenting customer and medical markets, brand products and services, enhance a communication strategy to the consumer, and develop pricing approaches. Methods and models

of marketing fundamentals will be introduced.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

Business Administration Certificate

Required Courses

BUS 500 - Leadership Skills for Managers

3 Credit(s)

This course teaches practical skills required for effective management at all levels of an organization, and is designed to increase a learner's understanding of key concepts and procedural guidelines related to organizational management, human resource, and leadership. The purpose is to be equipped to deal effectively with managerial challenges dealing with people.

BUS 505 - Creating Consumer Value

3 Credit(s)

This course presents learners with a comprehensive approach to creating consumer value. This includes marketing and brand management in for-profit firms as well as identifying and meeting consumer needs in non-profit and governmental organizations. Topics include segmentation and targeting of consumers; the positioning levers of product, price, promotion, and distribution; and brand management.

ECON 505 - Managerial Economics

3 Credit(s)

This course demonstrates how economics theory is applied to national and international managerial decision-making. The course covers topics such as demand analysis, production and cost functions, market structure, managerial understanding of public policy, and international trade finance topics. Pre-req.-Undergraduate Economics course with a grade of C or higher.

BUS 520 - Managerial Accounting

3 Credit(s)

This course provides a review of financial reporting standards and statements and analysis of those financial statements. Managerial accounting principles will be explored as well as budgeting, cost allocation, accumulation, cost behavior, and relevant costs; revenues are approached from a managers' perspective. Prerequisite: undergraduate accounting course with a grade of C or higher.

BUS 525 - Financial Analysis

3 Credit(s)

Students will embark on studying basic financial principles and enhance that with understanding various valuation concepts and methods. Emphasis is also placed on capital budgeting and long term financing as well as working capital management. The course will blend time-tested finance principles and the latest advancements with the practical perspectives of the financial manager. Prerequisite: undergraduate accounting course with a grade of C or higher.

Prerequisite(s):

BUS 520 Minimum Grade: C

BUS 540 - Strategy

3 Credit(s)

In this course, learners examine tools and techniques for competitive analysis, strategic planning, and strategy implementation. Learners gain knowledge of the tools and concepts needed to develop a business strategy including macro environmental scanning, industry and competitive analysis, value chain analysis, SWOT analysis, identification of critical success factors and driving forces, and development of strategic alternatives and recommendations.

Business Leadership Certificate

Go to: Business

Required Courses

BUS 500 - Leadership Skills for Managers

3 Credit(s)

This course teaches practical skills required for effective management at all levels of an organization, and is designed to increase a learner's understanding of key concepts and procedural guidelines related to organizational management, human resource, and leadership. The purpose is to be equipped to deal effectively with managerial challenges dealing with people.

BUS 545 - Leading Entrepreneurial Organizations

3 Credit(s)

Successful organizations emphasize learning to sustain their competitive advantage. This course will study entrepreneurship and intrapreneurship. Areas of emphasis include uncovering the methodologies and characteristics that foster innovations and achieve meaningful change in business that leads to the creation and implementation of profitable business opportunities.

BUS 550 - Technology and Innovation

3 Credit(s)

This course adopts the perspective of a general manager-- an individual charged with diagnosing complex situations and resolving them in ways that enhance organizational performance. The course emphasizes how general management decisions may contribute to the creation and appropriation of economic value through innovation.

BUS 555 - Leading for Results

3 Credit(s)

This course focuses on how leaders mobilize others within their organization to get extraordinary things done. You will analyze what characteristics you need to develop to achieve your own professional goals and reflect on ways you can develop your competencies as a leader.

BUS 560 - Leadership Capstone

3 Credit(s)

This capstone course integrates knowledge gained in the previous graduate business courses. It centers on the theme that organizations achieve sustained success when their managers have astute, timely, strategic game plans, and they implement these plans with proficiency. This class incorporates the "big picture" and cuts across the whole spectrum of business and leadership.

Business Qualitative Skills Certificate

Go to: Business

Required Courses

BUS 500 - Leadership Skills for Managers

3 Credit(s)

This course teaches practical skills required for effective management at all levels of an organization, and is designed to increase a learner's understanding of key concepts and procedural guidelines related to organizational management, human resource, and leadership. The purpose is to be equipped to deal effectively with managerial challenges dealing with people.

BUS 505 - Creating Consumer Value

3 Credit(s)

This course presents learners with a comprehensive approach to creating consumer value. This includes marketing and brand management in for-profit firms as well as identifying and meeting consumer needs in non-profit and governmental organizations. Topics include segmentation and targeting of consumers; the positioning levers of product, price, promotion, and distribution; and brand management.

BUS 540 - Strategy

3 Credit(s)

In this course, learners examine tools and techniques for competitive analysis, strategic planning, and strategy implementation. Learners gain knowledge of the tools and concepts needed to develop a business strategy including macro environmental scanning, industry and competitive analysis, value chain analysis, SWOT analysis, identification of critical success factors and driving forces, and development of strategic alternatives and recommendations.

- Plus 1 500 Level Elective **3 Credit(s)**

Business Quantitative Skills Certificate

Go to: Business

Required Courses

BUS 520 - Managerial Accounting

3 Credit(s)

This course provides a review of financial reporting standards and statements and analysis of those financial statements. Managerial accounting principles will be explored as well as budgeting, cost allocation, accumulation, cost behavior, and relevant costs; revenues are approached from a managers' perspective. Prerequisite: undergraduate accounting course with a grade of C or higher.

BUS 525 - Financial Analysis

3 Credit(s)

Students will embark on studying basic financial principles and enhance that with understanding various valuation concepts and methods. Emphasis is also placed on capital budgeting and long term financing as well as working capital management. The course will blend time-tested finance principles and the latest advancements with the practical perspectives of the financial manager. Prerequisite: undergraduate accounting course with a grade of C or higher.

Prerequisite(s):

BUS 520 Minimum Grade: C

- Plus 1 BUS 500 Level Elective **3 Credit(s)**

ECON 505 - Managerial Economics

3 Credit(s)

This course demonstrates how economics theory is applied to national and international managerial decision-making. The course covers topics such as demand analysis, production and cost functions, market structure, managerial understanding of public policy, and international trade finance topics. Pre-req.-Undergraduate Economics course with a grade of C or higher.

Data Analytics and Decision-Making Certificate (9 credits)

Required Courses

LEAD 560 - Data Analysis in Higher Education

3 Credit(s)

This course introduces the concepts and skills involved in understanding and analyzing research in a variety of areas in

higher education. The course provides an overview of basic, general knowledge of various research methodologies. It emphasizes the conceptual underpinnings of statistical analysis of data, including univariate and bivariate descriptive statistics, sampling distributions, statistical estimation, hypothesis testing and procedures in testing statistical hypothesis for one and two sample designs. This course also enhances students' abilities to locate, read, comprehend, and critically analyze research articles and reports.

LEAD 561 - Institutional Research, Planning, and Assessment

3 Credit(s)

This course provides students with an overview of decision-making strategies and techniques for effective planning, institutional research, and assessment. Particular attention will be given to the diversity of institutional settings and the context within which leaders in higher education practice, including small and large campuses, public and private colleges and universities, system offices, and state and federal level agencies.

LEAD 562 - Strategic Enrollment Management

3 Credit(s)

This course provides students with a study of purposes, organizations, and functions of strategic enrollment management (SEM) including relevant research, case studies of public and private college and university implementation of SEM, its context in higher education, and contemporary practical administrative SEM organizations and functions. Topics will be covered such as admissions, financial aid, student access and success, college completion, marketing and branding, technology, change management, and state and federal policies.

Doctor of Philosophy in Counselor Education and Supervision

- Go to: Counseling and Counselor Education

The Ph.D. in Counselor Education and Supervision prepares graduates to

- Work as counselor educators and supervisors, researchers and practitioners in academic and clinical settings.
- Extend the knowledge base of the counseling profession in a climate of scholarly inquiry.
- Publish and/or present the results of scholarly inquiry.
- Inform professional practice by generating new knowledge for the profession through dissertation or comparable research projects focused on areas relevant to counseling practice, counselor education, and/or supervision.
- Assume positions of leadership in the counseling profession and/or their area(s) of specialization.

Counselor Education and Supervision students at Adams State University will be

- Prepared to teach select courses in counseling skill, theory, ethics, research, assessment, group, supervision, instructional theory, and career.

- Knowledgeable and skilled in the practice of advanced clinical counseling.
- Knowledgeable and competent in cultural diversity.
- Experienced in online course development, delivery, and counseling supervision.
- Prepared to teach courses in the CACREP core.
- Prepared to supervise counselors and counseling students who provide individual and group counseling.
- Experienced in developing and conducting research.
- Experienced in presenting research results at state, regional, and national conferences.
- Experienced in writing for professional publications.
- Prepared to evaluate counselor education programs and clinical counseling sites.
- Experienced as professional counseling leaders, mentors, practitioners, and consultants.
- Experienced as active change advocates.

Degree Requirements

The Doctor of Philosophy program in Counselor Education and Supervision requires a minimum of 60 semester hours as described below. However, the order of the course offering is subject to change. Students must enter the doctoral program with a master's degree in counseling from a CACREP accredited program. If the student's degree is from a non-CACREP program, additional hours will be assessed.

COUN 705 - Advanced Theories and Career

3 Credit(s)

This course examines several major counseling and career theories that inform current counseling practice. Students will have an opportunity to compare and analyze and evaluate the compatibility and effectiveness of counseling theories in practice, including evidence based practices, and ethical and culturally relevant practice in multiple clinical settings. Students will demonstrate knowledge and application of major theories pertaining to the principles and practices of counseling and career development to include the conceptualization of clients from multiple theoretical perspectives.

COUN 708 - Quantitative Research Method

3 Credit(s)

This course examines advanced quantitative research models and methods of instrument design, such as experimental and quasi-experimental designs. Students will gain knowledge and skill in developing quantitative research questions appropriate for professional research, designing a quantitative research study, and submitting research proposals for human subjects/institutional review board reviews. Students will also be introduced to writing for publication. The course will also address ethical and diversity issues involved in research design, measurement, and implementation.

Prerequisite(s):

Admission to the doctoral program

COUN 710 - Supervision and Consultation

3 Credit(s)

Theoretical and applied aspects of the human learning process related to clinical supervision and consultation, with an emphasis on the concepts, issues, and strategies of applied clinical supervision and its delivery will be explored in this course. This course provides an opportunity for students to synthesize and apply knowledge of supervision and the consultations process as they develop their personal style for supervision and consultation. Students will be exposed to current theories, models, and topics related to supervision and consultation. Ethical and legal issues in supervision and consultation will be addressed.

COUN 712 - Qualitative Research Methodology

3 Credit(s)

This course examines advanced qualitative research design and approaches and explores and contrasts philosophical assumptions of qualitative and quantitative research. Students will gain knowledge and skill in developing qualitative research questions appropriate for professional research, designing a qualitative research study, and submitting research proposals for human subjects/ institutional review board reviews. Students will also be introduced to writing for publication. The course will also address ethical and diversity issues involved in research design, sampling, and implementation. Areas of emphasis include specific methodologies, such as phenomenology and grounded theory, in addition to other common and emergent qualitative approaches in counselor education.

COUN 715 - Advanced Multicultural & Ethical Issues

3 Credit(s)

This course will provide an understanding of the cultural context of relationships, issues and trends in a multicultural and diverse society using relevant professional ethical codes and principles. Emphasis will be placed on delivering culturally and ethically relevant counseling in multiple settings, conducting supervision, and conducting and reviewing research. Cultural and ethically relevant leadership and advocacy practices will be discussed. Students will explore current social and cultural issues, including social change theory and advocacy action planning. The role of racial, ethnic, and cultural heritage; nationality; socioeconomic status; family structure; age; gender; sexual orientation; religious and spiritual beliefs; occupation; physical and mental status; local, regional, national, and international perspectives; and equity issues in counselor education programs, counseling supervision, and counseling research.

COUN 717 - Instructional Theory in Counselor Education

3 Credit(s)

This course prepares students to teach counseling and related courses. Topics covered are learning theories, retention of material, motivation, classroom instructional strategies and techniques, and assessment of learning from the core learning expectations. This course will provide an overview of the history and development of counselor education with an examination of the theoretical orientation and practice skills necessary to function effectively as a counselor educator. Students will examine their personal philosophy of teaching and learning and demonstrate the ability to design, deliver, and evaluate methods appropriate to course objectives.

COUN 720 - Advanced Group Counseling

3 Credit(s)

This course focuses on a critical analysis of advanced group counseling theories, approaches, literature, and modalities applicable to working with groups. Students will engage in experiential learning focused on in-depth exploration of their personal approach to group leadership and supervision. Students will also develop advanced group counseling leadership skills and identify strategies based upon the special needs and characteristics of diverse client groups.

COUN 722 - Quantitative Data Analysis

3 Credit(s)

This course examines univariate and multivariate statistics most frequently used in psychological research. Students will learn how to read and interpret these statistics in published psychological research as well as how to apply them to the analysis of their own research projects. Students will learn how to select the appropriate statistical analyses, collect data in a controlled manner, analyze the data, and interpret the results. This course emphasizes skill in applying advanced statistical techniques to social science research, interpreting results of statistical analyses, and data analyses and presentations. This course will also address writing for professional publications and conference proposals, as well as ethical and diversity issues involved in analyzing and publishing research.

Prerequisite(s):

COUN 708

COUN 723 - Qualitative Data Analysis

3 Credit(s)

This course provides an in-depth exploration of qualitative research methodologies and the development of advanced-level qualitative research skills. Advanced topics in qualitative research are considered to foster critical thinking skills and to inform a long-term research agenda. Epistemological assumptions, theoretical considerations, data collection, and analytic procedures for grounded theory, phenomenological, narrative, case study, ethnographic research designs, and other emergent research practices and processes are reviewed. This course emphasizes skill in interpreting the results of qualitative data analyses; students will apply knowledge and skill to the analysis of their own research projects. This course will also address writing for professional publications and conference proposals and ethical and diversity issues involved in analyzing and publishing research.

Prerequisite(s):

COUN 712

COUN 725 - Seminar in Counselor Education

3 Credit(s)

This course is designed to facilitate the student's awareness and knowledge in current issues related to counselor educators. Students will discuss and present current issues in the field, providing a format for debate and discussion. The course will increase the student's awareness of the ever-changing areas of social and educational change.

COUN 727 - Advanced Practicum in Counseling

3 Credit(s)

This advanced supervised practicum in counseling will enable doctoral-level students to develop and/or refine advanced counseling skills and conceptually link counselor practice and supervision. The doctoral practicum focuses on additional supervised clinical counseling experience beyond the supervised experience completed in the student's master's degree program. Students are required to participate in a supervised doctoral-level practicum of a minimum of 100 hours in counseling, of which 40 hours must be in direct service with clients. The nature of the doctoral-level practicum experience is to be determined in consultation with program faculty and/or a doctoral committee. Students will participate in weekly group supervision with a faculty member and other practicum students.

COUN 729 - Seminar: Leadership & Advocacy

3 Credit(s)

This leadership focused course will focus on current issues in counseling to include the role of ethical and legal consideration in counselor education and supervision. Focus will be on the theories, skills and models of leadership as well as strategies for responding to community, national, and international crises and disasters. Students will explore current topical and political issues in counseling and how those issues affect the daily work of counselors and the counseling profession. Students must demonstrate the ability to provide leadership or contribute to leadership efforts of professional organizations and/or counseling programs and the ability to advocate for the profession and its clientele.

COUN 735 - Advanced Assessment and Program Evaluation

3 Credit(s)

This course serves as an advanced course on the principles of assessment, testing, and evaluation. Students will examine and critique assessment instruments used in counseling and counselor education. Students will develop knowledge and skills to prepare them for teaching assessment at the Master level. Additionally, this course focuses on the concepts and processes related to program evaluation and the steps in performing a program evaluation. Emphasis is on the application and demonstration of critical thinking skills related to analyzing and evaluating programs. Students will also gain foundational knowledge about writing grant proposals appropriate for research, program enhancement, and/or program development.

Prerequisite(s):

Admission into the doctoral program

COUN 736 - Dissertation Seminar

3 Credit(s)

This course focuses on developing the essential components of the student's dissertation. This seminar is designed to assist students in making substantive progress in identifying and developing their dissertation proposal. Students will critically examine the current literature associated with their research interests and examine the current literature associated with their research interests and examine applicable conceptual constructs and methodologies. Students will complete the first drafts of the first three chapters of their dissertation, which will be used for their dissertation proposal. A complete review of the literature and draft of the dissertation proposal will be evaluated for methodological strengths and weaknesses.

Prerequisite(s):

COUN 708 Minimum Grade: B-
AND

COUN 712 Minimum Grade: B-
AND

COUN 722 Minimum Grade: B-
AND

COUN 734 Minimum Grade: B-

COUN 737 - Doctoral Internship I-Supervision

1 Credit(s)

Students are required to complete doctoral-level counseling internships that total a minimum of 600 clock hours. The 600 hours must include supervised experiences in at least three of the five doctoral core areas (counseling, teaching, supervision, research and scholarship, leadership and advocacy). The 600 credit hours may be allocated at the discretion of the doctoral advisor of the doctoral advisor and the student on the basis of experience and training. Internship is designed to provide individual students with a planned program of advanced doctoral level professional experience in a college or community/agency setting. Internship assignments will be controlled and coordinated by a university instructor. An experienced professional at the internship site provides direct supervision. The doctoral-level internship will consist of providing individual and group supervision to master's level students, teaching and/or co-teaching master's level counseling courses, and participating in professional activities related to counselor education. If doctoral students have had limited clinical counseling experiences prior to beginning their doctoral work, they may also be required to complete credit hours in a counseling setting to gain more counseling experience

Prerequisite(s):

COUN 710 Minimum Grade: B-

COUN 738 - Doctoral Internship II Teaching

1 Credit(s)

Students are required to complete doctoral-level counseling internships that total a minimum of 600 clock hours. The 600 hours must include supervised experiences in at least three of the five doctoral core areas (counseling, teaching, supervision, research and scholarship, leadership and advocacy). The 600 credit hours may be allocated at the discretion of the doctoral advisor and the student on the basis of experience and training. Internship is designed to provide individual students with a planned program of advanced doctoral level professional experience in a college or community/agency setting. Internship assignments will be controlled and coordinated by a university instructor. An experienced professional at the internship site provides direct supervision. The doctoral-level internship will consist of student's engaging in teaching activities, which include but are not limited to teaching master's level students on-campus/online. If doctoral students have been limited clinical counseling experiences prior to beginning their doctoral work, they may also be required to complete credit hours in a counseling setting to gain more counseling experience.

Prerequisite(s):

COUN 710 Minimum Grade: B-
AND

COUN 737 Minimum Grade: B-

COUN 739 - Doctoral Internship III Supervision

1 Credit(s)

Students are required to complete doctoral-level counseling internships that total a minimum of 600 clock hours. The 600 hours must include supervised experiences in at least three of the five doctoral core areas (counseling, teaching, supervision, research and scholarship, leadership and advocacy). The 600 credit hours may be allocated at the discretion of the doctoral advisor and the student on the basis of experience and training. Internship is designed to provide individual students with a planned program of advanced doctoral level professional experience in a college or community/agency setting. Internship assignments will be controlled and coordinated by a university instructor. An experienced professional at the internship site provides direct supervision. The doctoral-level internship will consist of providing individual and group supervision to master's level students, teaching and/or co-teaching master's level counseling courses, and participating in professional activities related to counselor education. If doctoral students have

had limited clinical counseling experiences prior to beginning their doctoral work, they may also be required to complete credit hours in a counseling setting to gain more counseling experience.

Prerequisite(s):

COUN 710 Minimum Grade: B-
AND

COUN 737 Minimum Grade: B-

AND

COUN 738 Minimum Grade: B-

COUN 743 - Doctoral Internship IV Core

1 Credit(s)

Students are required to complete doctoral-level counseling internships that total a minimum of 600 clock hours. The 600 hours must include supervised experiences in at least three of the five doctoral core areas (counseling, teaching, supervision, research and scholarships, leadership and advocacy). The 600 credit hours may be allocated at the discretion of the doctoral advisor and the student on the basis of experience and training. Internship is designed to provide individual students with a planned program of advanced doctoral level professional experience in a college or community/agency setting. Internship assignments will be controlled and coordinated by a university instructor. An experienced professional at the internship site provides direct supervision. The doctoral-level internship will consist of student's choosing from one of three doctoral core areas to complete internship hours. These include counseling, research and scholarship, leadership and advocacy. If doctoral students have had limited clinical counseling experiences prior to beginning their doctoral work, they must also be required to complete credit hours in a counseling setting to gain more counseling experience.

Prerequisite(s):

COUN 710 Minimum Grade: B-
AND

COUN 737 Minimum Grade: B-

AND

COUN 738 Minimum Grade: B-

AND

COUN 739 Minimum Grade: B-

COUN 741 - Doctoral Internship V Teaching

1 Credit(s)

Students are required to complete doctoral-level counseling internships that total a minimum of 600 clock hours. The 600 hours must include supervised experience in at least three of the five doctoral core areas (counseling, teaching, supervision, research and scholarship, leadership and advocacy). The 600 credit hours may be allocated at the discretion of the doctoral advisor and the student on the basis of experience and training. Internship is designed program of advanced doctoral level professional experience in a college or community/agency setting. Internship assignments will be controlled and coordinated by a university instructor. An experienced professional at the internship site provides direct supervision. The doctoral-level internship will consist of student's engaging in teaching activities,

which include but are not limited to teaching master's level students on-campus/online. If doctoral students have had limited clinical counseling experiences prior to beginning their doctoral work, they may also be required to complete credit hours in a counseling setting to gain more counseling experience.

Prerequisite(s):

COUN 710 Minimum Grade: B-
AND

COUN 737 Minimum Grade: B-
AND

COUN 738 Minimum Grade: B-
AND

COUN 739 Minimum Grade: B-
AND

COUN 743 Minimum Grade: B-

COUN 742 - Doctoral Internship VI Supervision

1 Credit(s)

Students are required to complete doctoral-level counseling internships that total a minimum of 600 clock hours. The 600 hours must include supervised experience in at least three of the five doctoral core areas (counseling, teaching, supervision, research and scholarship and advocacy). The 600 credit hours may be allocated at the discretion of the doctoral advisor and the student on the basis of experience and training. Internship is designated to provide individual students with a planned program of advanced doctoral level professional experience in a college or community/agency setting. Internship assignments will be controlled and coordinated by a university instructor. An experienced professional at the internship site provides direct supervision. The doctoral-level internship will consist of providing individual and group supervision to master's level students, teaching and/or co-teaching master's level counseling courses, and participating in professional activities related to counselor education. If doctoral students have had limited clinical counseling experiences prior to beginning their doctoral work, they may also be required to complete credit hours in a counseling setting to gain more counseling experience

Prerequisite(s):

COUN 710 Minimum Grade: B-
AND

COUN 737 Minimum Grade: B-
AND

COUN 738 Minimum Grade: B-
AND

COUN 739 Minimum Grade: B-
AND

COUN 743 Minimum Grade: B-

AND

COUN 741 Minimum Grade: B-

COUN 744 - Dissertation I

3 Credit(s)

This course is a Counselor Education & Supervision doctoral degree requirement focused on preparing students to inform professional practice by generating new knowledge for the counseling profession through dissertation research or a comparable research project focusing on areas relevant to counseling practice, counselor education, and/or supervision. Further, the course requires students to work individually with their doctoral committee to determine the specific requirements for completing dissertation research or comparable research project including a dissertation/project proposal and defense. Students may register for this course after successfully completing oral and written comprehensive exams and with the permission of their dissertation committee. The student's doctoral dissertation/project committee chair (or intended doctoral dissertation/project committee chair) will oversee the work of the student.

COUN 746 - Dissertation II

3 Credit(s)

This course is a Counselor Education & Supervision doctoral degree requirement focused on preparing students to inform professional practice by generating new knowledge for the counseling profession through dissertation research or a comparable project focusing on areas relevant to counseling practice, counselor education, and/or supervision. Further, the course requires students to work individually with their doctoral committee to determine the specific requirements for completing dissertation research or comparable research project including a dissertation/project proposal and defense. Students may register for this course after successfully completing oral and written comprehensive exams and with the permission of their dissertation committee. The student's doctoral dissertation/project committee chair (or intended doctoral dissertation/project committee chair) will oversee the work of the student. The student in collaboration with the supervising faculty member will develop a concrete plan of work related to the student's intended dissertation/research project.

Prerequisite(s):

COUN 744 Minimum Grade: B-

COUN 751 - Dissertation III

3 Credit(s)

This course is a Counselor Education & Supervision doctoral degree requirement focused on preparing students to inform professional practice by generating new knowledge for the counseling profession through dissertation research or a comparable research project focusing on areas relevant to counseling practice, counselor education, and/or supervision. Further, the course requires students to work individually with their doctoral committee to determine the specific requirements for completing dissertation research or comparable research project including a dissertation/project proposal and defense. Students may register for this course after successfully completing oral and written comprehensive exams and with the permission of their dissertation committee. The students doctoral dissertation/project committee chair (or intended doctoral dissertation/project committee chair) will oversee the work of the student. The student in collaboration with the supervising faculty member will develop a concrete plan of work related to the students intended dissertation/research project.

Prerequisite(s):

COUN 736 Minimum Grade: B

AND

COUN 744 Minimum Grade: B

AND

COUN 746 Minimum Grade: B

COUN 755 - Dissertation IV

3 Credit(s)

This course is a Counselor Education & Supervision doctoral degree requirement focused on preparing students to inform professional practice by generating new knowledge for the counseling profession through dissertation research or a comparable research project focusing on areas relevant to counseling practice, counselor education, and/or supervision. Further, the course requires students to work individually with their doctoral committee to determine the specific requirements for completing dissertation research or comparable research project including a dissertation/project proposal and defense. Students may register for this course after successfully completing oral and written comprehensive exams and with the permission of their dissertation committee. The student's doctoral dissertation/project committee chair (or intended doctoral dissertation/project committee chair) will oversee the work of the student. The student, in collaboration with the supervising faculty member, will develop a concrete plan of work related to the student's intended dissertation/research project.

Prerequisite(s):

COUN 736 Minimum Grade: B

AND

COUN 744 Minimum Grade: B

AND

COUN 746 Minimum Grade: B

AND

COUN 751 Minimum Grade: B

COUN 756 - Dissertation Continuation

1 Credit(s)

This course is a Counselor Education and Supervision doctoral degree requirement for students who have not successfully defended their dissertation after completing COUN 755 - Dissertation IV. This course allows students to continue and complete dissertations with the assistance of the dissertation committee.

Prerequisite(s):

COUN 736 Minimum Grade: B-

AND

COUN 744 Minimum Grade: B-

AND

COUN 746 Minimum Grade: B-

AND

COUN 751 Minimum Grade: B-

AND

COUN 755 Minimum Grade: B-

Program Total (60 Hours)

Educational Policy in LEAD Certificate (12 credits)

Go to: Educational Leadership

Go to: Master of Arts in Leadership Education Administration and Development (LEAD) with Emphasis in Higher Education Administration and Leadership (HEAL)

Required Courses

LEAD 530 - Budgeting and Finance in Higher Education

3 Credit(s)

This course provides students with an overview of finance and budgeting issues in higher education. It describes the financial resource management in institutions as well as the budgeting process.

LEAD 531 - Politics and Policy in Higher Education

3 Credit(s)

This course examines state and federal government policies that influence institutions of higher education (IHEs) generally and Hispanic Serving Institutions (HSIs) specifically. The intersection between policies and institutional actions creates a dynamic that influences administrative leadership and student access and success. Effective leaders must account for the context in which they operate, and state and federal policies contribute to that context and, as such, merit special consideration and study.

LEAD 532 - Legal Issues in Higher Education

3 Credit(s)

This course is designed to review the impact of the judiciary on higher education. The legal standing of institutions of higher education on issues of staff rights, student rights, and tort liability will be addressed. In addition, the impact of local ordinances, state and federal laws and regulations will be examined.

LEAD 533 - Historical/Contemporary Issues

3 Credit(s)

This course provides students with an overview of the evolution of American higher education as we know it today. The first half of the course is an examination of the history of American higher education, beginning with colonial

times and tracing its development to the present. The second half of the course examines current topics in higher education, focusing on perennial issues and why they continue to perplex higher education officials.

Finance Certificate

Go to: Business

Required Courses

BUS 525 - Financial Analysis

3 Credit(s)

Students will embark on studying basic financial principles and enhance that with understanding various valuation concepts and methods. Emphasis is also placed on capital budgeting and long term financing as well as working capital management. The course will blend time-tested finance principles and the latest advancements with the practical perspectives of the financial manager. Prerequisite: undergraduate accounting course with a grade of C or higher.

Prerequisite(s):

BUS 520 Minimum Grade: C

BUS 531 - Multinational Financial Management

3 Credit(s)

Multinational Financial Management course has two emphases: one on the basics and the other on a managerial perspective. As international capital markets of the world become more integrated, an understanding of international financial management has become important for U.S. corporate decision making. This course provides students with groundwork for analysis that will serve them well in their future careers. The decision-making process in this course will teach students how to make knowledgeable managerial decisions in an ever changing global financial setting.

Prerequisite(s):

BUS 525 Minimum Grade: B-

BUS 532 - Portfolio Management and Investment Analysis

3 Credit(s)

The unifying theme of this course is that security markets are almost efficient, meaning that most securities are priced appropriately given their risk and return attributes. The course is a blend of practical and theoretical coverage combined with a complete digital solution to focus on making investment decisions from the perspective of the portfolio manager. This course also covers the Series 7 License and is designed to prepare the student for taking the National Association of Securities Dealers General Securities Representative Exam.

Prerequisite(s):

BUS 525 Minimum Grade: B-

BUS 533 - Financial Markets and Institutions

3 Credit(s)

This course is a great reflection of the latest developments from the field of financial markets. It helps students understand why financial markets exist, how financial institutions serve these markets, and what services those institutions offer. The course also focuses on the management, performance, and regulatory aspects of financial institutions and explores the functions of the Federal Reserve System, as well as the major debt and equity security markets, and derivative security market.

Prerequisite(s):

BUS 525 Minimum Grade: B-

BUS 534 - Finance Capstone

3 Credit(s)

This course uses a case study approach to solve complicated corporate problems and links managerial decisions to capital markets and the expectations of investors. Students will gain a deeper understanding of financial issues that they encounter in their professional career. At the core of the cases is a valuation task that requires students to look to financial markets for guidance in resolving the case problem. The focus on value helps the students understand the impact of the firm on the world around it.

Prerequisite(s):

BUS 525 Minimum Grade: B-

AND

BUS 531 Minimum Grade: B-

AND

BUS 532 Minimum Grade: B-

AND

BUS 533 Minimum Grade: B-

General Business Certificate

Go to: Business

Courses (16 credit hours)

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 179 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

Graduate Certificate in Diversity, Equity, and Inclusion in Sport

Go to: Kinesiology

This certificate, offered through the Kinesiology Department, is a 15-credit hour certification that will aid students in being able to better incorporate DEI measures into their respective professions.

Required Courses

KIN 502 - Women, Sport, and Society

3 Credit(s)

This course will explore how women have been involved in sports and athletics, how they have fought to claim recognition and legitimacy among historically male dominated settings, and how they continue to shape sports and the role of women in society. We will explore a wide variety of topics in society related to women in sports including historical influences, equitable access, characteristics of female sport participation, sport opportunities, and sport leadership. Topics will include Title IX, female bodies and physiology, sport diversity, gender identity, women's sport and aging, disabilities, sport and sexual violence, media and women's portrayal in sports, competitive sports in high school, college, and professional leagues, and marketing women's sports.

KIN 515 - Administration of Sport

3 Credit(s)

This course is designed to teach students the important principles, concepts, research, and theories of managing a sport organization. Students will develop the ability to apply the management principles to interscholastic, intercollegiate and professional and Olympic sports. Students will learn the fundamental principles such as: organizational development, marketing, human resources, strategic planning, sport culture, media relations, fundraising, event management, and leadership as it relates to sport.

Prerequisite(s):

BUS 500

KIN 538 - Diversity and Equity in Sport

3 Credit(s)

This course explores aspects of diversity and equity in sport. This course has a two-fold purpose: first, it is designed to provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask questions and think critically about diversity, equity, and inclusion in sport and interaction with society. This course will explore issues around diversity, equity, and inclusion in sport and society.

KIN 556 - Strategic Management / Leadership

3 Credit(s)

This course will provide a detailed overview of strategic management and leadership with an emphasis on the management of sport organizations in the commercial, public and not for profit sectors. This course will enable learners to evaluate the relevance of distinctive strategic management tools and consider how these can be applied to support the development of effective sport and sport-related organizations. Students also will examine the principles of effective leadership and reflect on their personal leadership style, the skills and competencies that support the style as well as examining plans for personal and professional development.

Prerequisite(s):

BUS 500 Minimum Grade: C

KIN 587 - Diversity, Equity, and Inclusion in Sport Capstone

3 Credit(s)

The capstone is designed to provide a cumulative experience for students who are completing the Diversity, Equity, & Inclusion (DEI) in Sport certification through the School of Kinesiology & Health Sciences. The capstone provides graduate students an opportunity to integrate the content they've learned in the DEI-related Kinesiology (KIN) prerequisite classes into their anticipated professions post-graduation. More specifically, students will further learn from minorities' lived experiences while being challenged to consider how such lived experiences should influence how the student manages themselves in professional and personal matters with the intent to be more equitable and inclusive of all bodies in their professional and personal lives.

Health Administration Certificate (Graduate)

Go to: Business

Required Courses

- Any 4 HCA 500 level courses

Health Administration Certificate (Undergraduate)

Go to: Business

Courses (16 credits total)

HCA 303 - Trends and Issues in Health Care

3 Credit(s)

This course is an introductory Health Care Administration course and will expose the student to the industry and its significant elements and trends of the current health care environment.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

HCA 311 - Health Care Law and Ethics

3 Credit(s)

This course presents an overview of the legal and ethical issues faced by health care consumers, practitioners, and administrators. The course will introduce students to the legal aspects of health care at the federal, state, and local levels. Topics covered will include criminal and civil claims against health care providers, corporate and individual liability, and legal and ethical decision-making, individual liability, and legal and ethical decision-making. HCA 361 Health Care Administration. Instructor permission.

Prerequisite(s):

BUS 211 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 325 - Health Care Informatics

3 Credit(s)

This course is a study of record keeping practices in the hospital and physician's office. Emphasis is placed in hospital and medical staff organization, patient record content, procedures in filing, numbering and retention of patient records, quantitative analysis, release of patient information, forms control and design, indexes and registers, reimbursement, regulatory and accrediting agencies, and alternate health care delivery systems. Instructor permission required.

Prerequisite(s):

BUS 120 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

HCA 363 - Health Care Finance

3 Credit(s)

This course is devoted to the practical aspects of finance in health care, an examination of current practices in financial management of health care organizations, and managerial applications to specific problems facing health care managers. The first part of the course will focus on an overview of health care finance, managerial accounting, and financial analysis. The second part will continue with managerial accounting and financial analysis and will concentrate on the various tools used in financial management. Emphasis is placed on unique issues and concerns that result from the regulatory framework of health care organizations. At the conclusion of this course, the student should be able to discuss the financial structure, market forces, controls and techniques used in the health care management field, be able to read and analyze financial statements and budgets and have the skill to interpret financial and operating performance.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

HCA 402 - Public and Population Health

3 Credit(s)

This course consists of an examination of epidemiological concepts and methods of studying the distribution and determinants of morbidity and mortality in human population. The knowledge and skills acquired should enable one to understand and critically review scientific literature dealing with epidemiology concepts and measures. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

BUS 179 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

Leadership Certificate (12 credits)

Required Courses

LEAD 500 - Leadership Theory

3 Credit(s)

This course provides a study/review of leadership theories and leadership development concepts. Students will gain an understanding of leadership, leadership theories, and leadership development.

LEAD 501 - Cultural Competency and Equity in Higher Ed

3 Credit(s)

This course focuses on issues of equity, cultural competency, diversity and allyship to provide students with the tools needed to create more inclusive and socially just environments in higher education.

LEAD 520 - Leadership in MSIs

3 Credit(s)

This course examines the various leadership theories that inform the practice of administration in colleges and universities and the higher education industry in general. Through assignments, special attention will be geared toward applying these theories to leadership within the context of Hispanic Serving Institutions (HSIs).

LEAD 521 - Administrative and Academic Collaboration

3 Credit(s)

This course provides students with an overview of staffing practices in higher education and the opportunities and challenges for collaboration between faculty, staff, and administration, with a special emphasis on acquiring a better understanding of who faculty are, what faculty do, and what faculty think. Particular attention will be given to how organizational culture drives collaborative efforts in minority serving institutions.

Master of Arts in Counseling, Clinical Mental Health Counseling Emphasis

- [Go to: Counseling and Counselor Education](#)

Master of Arts in Counseling

The Master of Arts in Counseling is offered in an online delivery modality. This program is designed to meet the educational needs of those students who are not within driving distance of a counseling program or whose work schedule will not allow physical attendance. The online program offers the same course content as the other accredited programs Adams State University offers, only in an online format. Students in the online program will spend one week on the Adams State campus during the two consecutive weeks in the program. During these weeks, students will interact with the faculty on campus and further develop their counseling and interpersonal skills, form learning groups, become acquainted with the program and its expectations, and receive tutoring, advising, and intensive supervision.

Core Requirements for the Master of Arts in Counseling

The degree programs in school and clinical mental health counseling require a minimum of 60 semester hours as described below. However, the order of the course offering is subject to change.

COUN 503 - Introduction to Research

3 Credit(s)

An introductory course to help students develop an understanding of the importance of research; overview basic elements of quantitative, qualitative, and action research ;methods, enhance skills to evaluate and critique research and literature; and gain an appreciation for conducting research.

COUN 515 - Multicultural and Diversity Issues

3 Credit(s)

This course is designed to assist students in understanding the impact of social/cultural forces upon identity development and formation. Students will explore various components of our pluralistic society and how oppressive systems can exclude and harm individuals. Change theory and advocacy principles will be introduced to aid students in dealing with these issues in their communities and with clients.

COUN 517 - Life Span Development

3 Credit(s)

This course is designed to provide an understanding of major influences of human development. Presentation of various developmental theories enable the student to understand the stages of the developmental process that include conception, childhood, adolescence, adulthood, aging process, and death and dying. Students will develop an appreciation and awareness of the complexity of human growth and development.

COUN 524 - Counseling Theories and Helping Relationships

3 Credit(s)

This course presents the major schools of thought influencing the practice of counseling. The relationship of philosophy, theory, and practice will be a primary focus. Students will understand the historical foundations of counseling and the beginnings of their own personal foundation of counseling.

COUN 527 - Group Counseling

3 Credit(s)

This course explores leadership styles, group dynamics, and group process necessary to run successful groups. The major group counseling theories will be explored, and group skills will be practiced. The course requires that students gain experience as both a growth group participant and as a co-leader.

Co-requisite(s): COUN 527L

COUN 527L - Group Counseling Lab

0 Credit(s)

Students are required to take COUN-527L Group Counseling Lab along with their COUN 527 course. The COUN-527L to engage in personal and professional growth as a group counselor in training while demonstrating self-awareness and professional behaviors required of counselors in training specifically in leading and engaging in Group activities. Students will experience the group process as both a group member and group leader while receiving individual/group supervision from program faculty.

Co-requisite(s): COUN 527

COUN 528 - Career Development

3 Credit(s)

This course provides students an understanding of the career planning process. Key career development theories will be examined and applied. The counseling process, the world of work, and career information resources, including computerized career assessment, will be examined in relation to career interventions.

COUN 530 - Couples/Family/Systems

3 Credit(s)

This course provides counseling students with the theoretical background and therapeutic skills necessary for therapeutic intervention in families, couples, and systems. Students will examine systems theory as it relates to families and couples and develop knowledge and skill pertaining to family-of-origin issues, addictions, parenting, and professional consultation.

COUN 536 - Pre-Practicum

3 Credit(s)

This course provides students an introduction to the counseling profession and helping relationships. The course will emphasize personal growth, self-awareness, and professional behavior. Students will experience the helping relationship as both client and counselor.

Co-requisite(s): COUN 536L

COUN 536L - Pre-Practicum Lab

0 Credit(s)

Students are required to take COUN-536L Pre-Practicum Lab along with their COUN 536 course. The COUN-536L is to engage in personal and professional growth as a counselor in training while demonstrating self-awareness and professional behaviors required of counselors in training. Students will experience the helping relationship as both client and counselor and receive individual/group supervision from program faculty.

Co-requisite(s): COUN 536

COUN 537 - Practicum

3 Credit(s)

Practicum is a clinical, experiential course that requires students to complete hours in a professional setting. The student will apply counseling techniques and skills in a supervised setting. The student will participate in the counseling process, refine techniques, and further enhance his/her therapeutic development.

Co-requisite(s): COUN 537L

COUN 537L - Practicum Lab

0 Credit(s)

Students are required to take COUN-537L Practicum Lab along with their COUN 537 course. The COUN-537L is to engage in personal and professional growth as a counselor in training while demonstrating self-awareness and professional behaviors required of counselors in training. Students will experience the helping relationship as both client and counselor and receive individual/group supervision from program faculty.

Co-requisite(s): COUN 537

COUN 538 - Crisis, Disaster, and Trauma

3 Credit(s)

This course focuses on knowledge of the many types of intervention used to address a range of crises. We will explore definitions of crisis, crisis theory, and models applied to specific crisis situations. The characteristics of effective crisis workers will be examined. Emergency services, school crisis teams, crisis hotlines, and other crisis response units will be discussed. Various activities will be used to practice the skills learned.

COUN 546 - Assessment in Counseling

3 Credit(s)

This course provides students with an understanding of individual and group approaches to assessment and evaluation. Students will learn various assessment and appraisal techniques with emphasis on multicultural and diversity, ethical, and legal issues.

COUN 549 - Foundations Addict Counseling

3 Credit(s)

This course provides counselors in training with an overview of the addictive process and the practice of addiction counseling. Models and theories of addiction along with professional issues in addiction counseling, co-occurring

disorders, such as process addictions will be addressed. Students will demonstrate conceptual knowledge, practical skills, and self-awareness concerning the etiology of addiction and its impact across the life-span, including criminology, neurological and societal implications. Assessment, diagnosis, and treatment of addictions with diversity and advocacy issues also being explored.

COUN 550 - Ethics and Professional Issues

3 Credit(s)

This course focuses on the ethical standards that govern the counseling profession. Current legislation and court decisions affecting professional behavior are examined. Particular emphasis is placed on the individual counselor's development of a professional identity within legal and ethical parameters.

Completion of the Requirements for the Clinical Mental Health Counseling Emphasis

COUN 542 - Diagnosis and Psychopathology

3 Credit(s)

The evolution of the DSM, its organization, and use will be explored. The student will develop an understanding of the process of diagnosis and the classification of mental disorders. The etiology and treatment of psychological disorders will be reviewed. Clinical writing skills will be practiced.

COUN 554 - Counseling Modalities for Clinical Mental Health

3 Credit(s)

This course focuses on applying the skills, interventions and modalities learned in the counseling courses to the Clinical Mental Health setting. Emphasis will be on learning to use evidence-based practices, working with clients with co-occurring diagnoses, and collaborating with multi-disciplinary teams.

COUN 555 - Clinical Mental Health Counseling

3 Credit(s)

This course focuses on issues in clinical mental health counseling including professionalism, roles and responsibilities, leadership, and management issues. The roles, responsibilities, and functions of the clinical mental health counselor will be discussed, showing the interrelatedness of community mental health counseling and other therapeutic professions (e.g., hospitals, law enforcement, and human services). In addition, the theoretical and historical framework within which the clinical mental health counselor has functioned in the past, the present, and the future will be explored.

COUN 585 - Internship I Clinical Mental Health

3 Credit(s)

Students will utilize knowledge and skills gained in coursework and the practicum experience in a supervised counseling setting. Students will receive supervision, increase knowledge of the profession, increase skill base, and continue the process of self-exploration, and self-awareness.

Prerequisite(s):

COUN 537 Minimum Grade: B

AND

COUN 555 Minimum Grade: C

COUN 595 - Internship II Clinical Mental Health**3 Credit(s)**

A continuation of Internship I, students will complete their supervised on-site experience, expand their acquired skills, and receive further supervision.

Prerequisite(s):

COUN 585 Minimum Grade: C

Plus 6 Elective Credits**Master of Arts in Cultural Resource Management**

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

The goals of the Cultural Resources Management program are to satisfy students' desires for directed study leading to a master's degree in Cultural Resource Management (prehistoric or historical focus), preparing them for advancement in that field or for going on to doctoral studies. All professors of CRM classes in this program have field experience in cultural resource management as archaeologists and/or administrators. They are committed to developing and encouraging students to achieve their academic potential. The degree is delivered through semester based, interactive, Internet courses.

Degree Requirements**Required Core****CRM 500 - Philosophy, Laws, and Standards****3 Credit(s)**

This is the introductory course for Cultural Resource Management. It covers the history and philosophy of CRM, the heritage preservation laws that created and govern the field, and current standards and practices of the field.

CRM 510 - Research Methods**3 Credit(s)**

This course serves as an introduction to the wide variety of technologies and techniques used in CRM. It will delve into pre-field, field, and post-fieldwork methods as related to developing a research design. Some technologies covered may include: Office Suite, GIS, LiDAR, compositional analysis, and dating techniques. Specific techniques will be adjusted to each student's previous background and technological expertise.

CRM 520 - Report Writing

3 Credit(s)

Central to all good archaeology is the writing of reports. This is especially true in cultural resource management, but these reports have unique requirements. They must meet professional standards, the standards of the agencies responsible for the resources, and they must be written in a way that is understandable to the project sponsors. This course will prepare students to produce well-written reports and correspondence for this profession.

CRM 571 - Archaeological Theory

3 Credit(s)

This is an online course which will cover the central theories that have driven the field of archaeology.

CRM 580 - Internship

3 Credit(s)

This is a practicum in cultural resource management during which the student will work on one or more actual CRM projects at least at the level of assistant project director. The work will be carried out in conjunction with a recognized CRM firm or a land managing agency.

CRM 591 - Thesis

3 Credit(s)

Students work through the research design, organization, and background material that will become their master's thesis. This will include a clear and decisive research question, a brief proposal, a hypothesis, and structural outline, all of which serve as guides in the organization of your thesis. Drafts of a culture history, environmental background and methods sections for the thesis are developed in conjunction with the committee chair.

Grade Mode: Pass/Fail

Prerequisite(s):

Approval of CRM advisor and/or course instructor. CRM 570 is recommended to prepare for this class, but not required.

CRM 592 - Continuing Thesis

1 to 6 Credit(s)

This course is required each fall and spring semester after the student has taken CRM 591 (Thesis) and until successful defense of the thesis.

Grade Mode: Pass/Fail

Context and Content

Complete 12 credits from the following courses selected in consultation with your advisor

ANTH 539 - Archaeology Field School

1 to 6 Credit(s)

Through actual field experience, the student will learn basic techniques of site identification and recording, excavation, and artifact processing and analysis. In addition, they will learn instruments surveying and introductory applications of geographic information systems. The skills taught will be appropriate for either prehistoric or historic sites.

ANTH 579 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

ANTH 592 - Workshop

1 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

ANTH 599 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Chair.

CRM 530 - Pre-Contact North America

3 Credit(s)

This course is a survey of North American archaeology prior to European contact. Various periods and themes are explored, focusing on the current debates in the field of archaeology and CRM.

CRM 531 - Post-Contact North America

3 Credit(s)

This course is a survey of North American archaeology after European contact. Various periods and themes are explored, focusing on the current debates in the field of archaeology and CRM.

CRM 560 - Applied GIS/CRM Professionals

3 Credit(s)

This course will introduce students to real world applications of Geographical Information Systems (GIS) as it is used

in the Cultural Resource Management (CRM) field. Students will learn from applied examples about the critical thinking needed in cartography, digital data management, spatial data collection, resource management, statistical analysis, and visual learning.

CRM 561 - Geoarchaeology

3 Credit(s)

This online course is an introduction to geoarchaeology and the application of the geosciences to archaeological questions and research. This includes topics such as sedimentology, geomorphology, pedology, paleoenvironmental and paleoclimate reconstruction, geochemical provenance studies, Quaternary dating methods, and site formation processes.

CRM 570 - Selected Readings in CRM

3 Credit(s)

This course permits the student to work with an instructor to develop a syllabus of readings on a topic of the student and instructor's choice that is not otherwise offered through the institution.

CRM 579 - Special Topics

1 to 6 Credit(s)

This course will be developed by the instructor on topics of interest to the students in the CRM Master's Program that are not otherwise offered in the degree plan.

CRM 580 - Internship

3 Credit(s)

This is a practicum in cultural resource management during which the student will work on one or more actual CRM projects at least at the level of assistant project director. The work will be carried out in conjunction with a recognized CRM firm or a land managing agency.

OR

CRM 581 - Previous Archaeological Experience

3 Credit(s)

This course permits students to receive credit for prior professional employment and/or archaeological research.

Prerequisite(s):

Previous archaeological, museums, historic preservation, or other relevant field experience for a degree in cultural resource management.

Grade Mode: Pass/Fail

CRM 599 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Head.

HIST 501 - State History

3 Credit(s)

A graduate-level survey of the history of a particular state, with emphasis on how meta and national phenomenon impacted a given state, as well as events and phenomena unique to the state.

HIST 505 - American West

3 Credit(s)

This course is a survey of the American West with an emphasis on interpretation by historians. Admission to the Master of Arts program is required.

HIST 520 - Topics in World History

3 Credit(s)

This course will involve intensive reading, analysis, and discussion of selected topics/controversies in world history.

HIST 546 - Borderlands

3 Credit(s)

This course explores borderlands as a site of historical scholarship with special emphasis on the southwestern United States and the United States-Mexico border.

HIST 551 - Atlantic History

3 Credit(s)

This course explores the Atlantic world as a field of historical scholarship with a special focus on European colonization of the Americas, African slavery, and the Age of Revolutions.

HIST 563 - Civil War and Reconstruction

3 Credit(s)

A graduate-level study of the antebellum South, sectional discord, armed conflict, and reconstruction of the Union.

HIST 579 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

Master of Arts in Education, Culturally and Linguistically Diverse (CLD) Endorsement

Go to: Educational Preparation

The five-semester Master of Arts in Education with a Culturally and Linguistically Diverse (CLD) endorsement focuses on the development of sound multicultural teaching competencies and educational leadership for service in schools.

Total degree hours: 33 Credits

Academic Core Requirements for MA Candidates only

ED 507 - Integrated Instruction & Assessment

3 Credit(s)

This course supports candidates in aligning their beliefs and values to develop their teaching identity. Metacognitive processes will help candidates be aware of their own motives and empower them to actively participate in their own learning as they begin to develop their art of teaching. Candidates will design a sequence or unit of study following the Understanding by Design framework which includes digging deeper into formative and summative assessments and interpreting assessment data to teach responsively. Alternative methods of facilitating instruction and assessing student performance and understanding will be investigated and implemented to increase the candidate's understanding of their students' abilities, interests, and needs. Candidate's will also discover strategies for fostering successful community partnerships.

ED 534 - Multicultural Perspectives

3 Credit(s)

This course provides students with an overview of the role of cultural diversity in the classroom and its effect on teaching and learning. While exploring issues of race, class, culture, and power, students will develop a deeper understanding of school demographics, perspectives on teaching and learning and the interaction between pedagogy and culture. Students will gain an understanding about the effects of different social, cultural, linguistic, and cognitive experiences on learner development, the impact this can have on their choices as teachers and leaders.

ED 557 - Research Methods

3 Credit(s)

Research methods is designed to provide candidates in the program with background knowledge of quantitative and qualitative research methods. The course will help candidates evaluate the appropriateness of each method when

designing a research project. Candidates will develop mini- proposals for each type of research in preparation for implementing and reporting on their own research project.

Cognate Requirements (24 Credits)

CLD 501 - Introduction to the Study of Language

3 Credit(s)

This course provides prospective teachers with an overview of the study of language and how it works. It is an introduction to the scientific study of language and linguistics. The course provides for examination of relevant theories of language and how language is acquired as well as cognitive, societal and cultural considerations affecting its use. Specific topics to be examined include: the structure of languages, grammatical constructs (e.g., morphology, syntax, semantics, phonetics, phonology, and discourse), the interactions between language use and social structures, and the representation of language in the brain. Instructional applications will be considered. The course presupposes no formal study or knowledge of language/ linguistics.

Prerequisite(s):

Admission to the Graduate School

CLD 502 - Language and Culture

3 Credit(s)

This course explores the peculiar relationship between language and the cultural total of which the language is a part, including the connection between cultural identity and heritage language. It examines language variations within a community according to gender, age, geography, ethnicity, socioeconomic class and level of education. Specifically, the course deals with the linguistic factors characterizing differences in language and with the social and social-psychological variables associated with these differences. Attention is given to the different varieties of language within a speech community (e.g., dialect, register, and style) and the societal and cultural factors that define their use. Course content considers the educational, political and economic implications. The course presupposes no formal study or knowledge of language/ linguistics.

Accordingly, the course focuses on the different ways people speak. It deals with the linguistic factors characterizing differences in language and with the social and social-psychological variables associated with these differences. Thus, having completed the course, students should (a) be aware of the different linguistic choices available to speakers in different social/ cultural contexts, (b) have an understanding of the factors which influence the choosing of one variety over another and the societal implications of such choices, (c) gain an appreciation for language diversity and cultural pluralism and, for those in teacher education programs, and, for education majors, (d) be able to demonstrate ability to identify and adapt instructional applications that are responsive to learners from different cultural backgrounds.

Prerequisite(s):

Admission to the Graduate School

CLD 503 - Second Language Acquisition

3 Credit(s)

Introduction to second language acquisition (SLA) theory and the application of SLA theory to second/foreign language teaching practices. Explores what it means to know a language and, hence, how one learns/ acquires a second language. The emphasis in the course is to provide an opportunity to become familiar with up-to-date major theories of language acquisition (e.g., linguistic, psychological, sociological, etc.). That is, what happens in the mind of L1 learners and expand to 2L learners. This is not a methodology course, though certain methods and approaches will be discussed as they are direct applications of 2L theories. Instead, students will be exposed to what research data show about the complex process of learning a second language, and to teach them how to rely on these data to understand a number of major models (theories) of 2LL and, as a result, be able to use this knowledge to evaluate different methods, materials and assessments for 2LL/CLD Introduction to second language acquisition (SLA) theory and the application of SLA theory to second/foreign language teaching practices. Explores what it means to know a language and, hence, how one learns/ acquires a second language. The emphasis in the course is to provide an opportunity to become familiar with up-to-date major theories of language acquisition (e.g., linguistic, psychological, sociological, etc.). That is, what happens in the mind of L1 learners and expand to 2L learners. This is not a methodology course, though certain methods and approaches will be discussed as they are direct applications of 2L theories. Instead, students will be exposed to what research data show about the complex process of learning a second language, and to teach them how to rely on these data to understand a number of major models (theories) of 2LL and, as a result, be able to use this knowledge to evaluate different methods, materials and assessments for 2LL/CLD populations. The course presupposes no formal study or knowledge of language/ linguistics. As part of the course content, we will seek to foster cultural sensitivity to the diverse student population becoming increasingly prevalent in classrooms in the U.S. We will also be concerned with providing the basic skills needed to satisfactorily assess the suitability of diverse 2LL methodologies & programs to meet the needs of limited English proficiency (LEP) students. An underlying assumption of the course is that learning is a social process that takes place within the broader social milieu of the learner's speech community. Accordingly, 2L learners bring into the classroom diverse language and cultural backgrounds, as well as a unique set of competencies, skills, sensitivities, goals, and needs. In order to provide for a successful learning environment, teachers must be able to identify and relate to the diversity inherent in today's student population and be able to take 'affirmative steps' towards addressing the needs of the students in their classrooms. Course content and activities will assist participants in developing a greater 'appreciation of democracy and diversity' in the classroom as we prepare for a global society as reflected in current theories of 2L acquisition.

TESOL Topics and Elective Courses *

CLD 504 - TESOL Methods

3 Credit(s)

This course introduces students to the study, philosophy, aims and methods of teaching English as a second (or foreign language) with an emphasis upon the techniques and materials in current use. It aims at providing for examination of current theory and empirical data on language learning, as well as for scrutinizing pertinent pedagogical implications/ applications for the TESOL K-12/ CLD classroom intended to address the language needs of non-native speakers of English. In addition, the course reviews research-based instructional methodologies applicable to teaching language through the content areas. The course considers the large 'storehouse of information' currently available on how to successfully tap into this knowledge in order to develop and implement sound methodological approaches which will assist SL/ CLD learners in becoming proficient in the target language and successful in the academic content areas. Content addresses teachers need to rely on effective instructional approaches and strategies that promote a climate that is conducive to opportunities for active involvement in learning about language, academic content, about classmates, and about the whole world. The course examines a synthesis of current 2L theory that should serve as the basis for development, selection, and modification of suitable materials and methods that will predictably be conducive to successful learning in both the language and content area classroom.

CLD 505 - TESOL Reading

3 Credit(s)

This course introduces students interested in questions of language acquisition to the theories and practices relating to learning to read in a second language or second dialect. Topics included are models for acquiring foreign language reading skills, teaching strategies for second language/dialect literacy, evaluating literacy skills, current research about acquisition of literacy skills, and political and social implications of second language/dialect literacy. The content addresses specifics about teaching reading for ELL/ CLD populations in classrooms. Opportunity is provided for candidates to become familiar with resources and data on school populations. The main goal of this course is to assist practicing or prospective teachers to learn how to promote development of crucial reading skills among ELL students. The course seeks to reexamine the pedagogical issues central to the 2L reading classroom, to be able to select suitable materials, to develop appropriate reading activities, to identify valid assessment measures, and to plan effective reading lessons suitable for instruction of ESL/CLD students.

CLD 506 - TESOL Writing

3 Credit(s)

This course introduces students interested in questions of language acquisition to the theories and practices of learning to write in a second language or second dialect. Topics included are 2L literacy development, writing theory, writing strategies, and 2L writers and rhetorical concerns. In addition, content examines teaching methodologies for second language/dialect literacy, assessment/evaluation of literacy skills, current research about acquisition of literacy skills, and political, cultural and social implications of ESL/ CLD literacy development. The main goal of this course is to assist practicing or prospective teachers to develop proficiency in promoting development of crucial 2L literacy/ writing skills among English Language Learners (ELLs). Content is responsive to the need to reexamine pedagogical issues central to the 2L writing classroom, and also be able to select suitable materials, to develop appropriate activities that address both second language literacy and content area knowledge, to identify valid assessment measures, to integrate technology into classrooms and to plan effective writing lessons suitable to the 2L classroom. Lastly, as part of the course content, we will seek to foster cultural sensitivity to the diverse student population becoming increasingly prevalent in classrooms in the U.S. We will also be concerned with providing the basic skills needed to satisfactorily assess the suitability of diverse 2LL methodologies & programs to meet the needs of limited English proficiency (LEP) students. An underlying assumption of the course is that learning is a social process that takes place within the broader social milieu of the learner's speech community. Accordingly, 2L learners bring into the classroom diverse language and cultural backgrounds, as well as a unique set of competencies, skills, sensitivities, goals, and needs. They may also bring with them different levels of L1 literacy skills. In order to provide for a successful learning environment, teachers must be able to identify and relate to the diversity inherent in today's student population and be able to take 'affirmative steps' towards addressing the needs of the students in their classrooms. Course content and activities will assist participants in developing a greater 'appreciation of democracy and diversity' in the classroom as we prepare for a global society as reflected in current theories of 2L development for academic purposes.

CLD 507 - TESOL Tests and Measurement

3 Credit(s)

This course examines language assessments in TESOL/ CLD. Course contents is intended to provide a practical and comprehensive overview of the different phases and activities involved in developing and implementing sound, rational, and effective language assessment instruments and activities. The course recognizes the relevance of context, purposiveness, and realistic discourse in testing. Specifically, the initial segment of the course will emphasize an integrated approach to educating English language learners (ELL) students, which encompasses social, cognitive, academic as well as linguistic dimensions and how to better assess the language instruction needs of ESL/CLD students. The course will focus on the practical applications of fundamental assessment principles, as well as development and evaluation of teacher-generated instruments for placement and diagnosis. Content discusses various

principles for guiding either practicing and prospective teachers through an assessment process mindful of standards-based instruction (e.g., dictation, cloze summary, oral interview, role-plays, portfolio assessment techniques) for teaching ESL/ CLD students at various levels.

CLD 508 - Bilingualism

3 Credit(s)

This course is a study of what it means to be a bilingual child or adult. It explores both the mind's role in bilingualism and in language acquisition as well as societal considerations. It surveys educational systems' response to language variance among students and explores the social, academic and language learning consequences of growing up bilingual. Content seeks to familiarize students with various aspects of bilingual education and language contact from a social-psychological perspective. It aims at providing for analysis and evaluation of current theory and research on bilingualism, as well as for examination of pertinent pedagogical implications/applications. First, we are interested in both social and individual factors related to bilingualism. That is, how and why bilingualism originates both as an individual and a societal phenomenon, and the social-psychological consequences of the same. Accordingly, we will consider topics such as: language attitudes, language and nation, bilingualism and inter-group relations, speech style and social evaluation. Second, we will also consider some important aspects of language contact such as: linguistic borrowing; code switching; language maintenance and language shift; English as a language of wider communication; language and context; diglossia; conversational interactions; language policy; language and culture. Third, we will also examine some significant aspects of the psychology of bilingualism. Specific topics to be covered are: cognitive and sociocultural consequences of bilingualism; neurolinguistic aspects of language acquisition and bilingualism; theoretical and research issues of bilingual education; performance of bilingual children on standardized tests; alternative approaches to testing and assessment of bilinguals; the teaching of English to non-native English speakers in the State of Colorado.

CLD 509 - TESOL Practicum/Capstone

3 Credit(s)

This course explores fundamental instructional considerations in TESOL by providing a school-based practical experience. This is an eight (8) week course under the direction of an experienced teacher/mentor and a university supervisor that provides classroom experience in an additional area of teaching certification for those who already hold certification in one area. Interns will observe teaching, participate in work with students (K-12), participate in planning sessions, teach and participate in all activities for which regularly employed teachers are responsible. This course is the culminating experience for the MA in Education with CLD Endorsement. A copy of the final summative teaching evaluation is placed in the candidate's file in the Teacher Education Department. All candidates are expected to demonstrate the basic skills relative to all teaching skills, such as lesson planning, unit planning, classroom management, effective instructional approaches, appropriate selection of materials, and knowledge of the teaching-learning process prior to being recommended for TESOL K-12 certification. Instruction should demonstrate alignment with the Colorado CLD Competencies. Candidates are required to teach at least six (6) lessons at an appropriate level (i.e., K-6, 7-12). As part of the evidence of competence to provide effective instruction in English as a Second Language/ CLD, class participants are required to generate a Professional Portfolio aligned with the Colorado CLD Competencies, aligned with the five TESOL/CAPE domain areas and to successfully pass a TESOL Portfolio Exit Interview.

CLD 579 - Special Topics in CLD

3 Credit(s)

This is a tutorial course that entails an examination of selected topics of education as they relate directly to first and second language learning, pedagogy, bilingualism, multicultural education and assessment. The course may focus on

different semesters on such topics as phonology and language learning, psycholinguistics and bilingualism, or teaching English in the content area classroom. This course may be repeated for credit once under different course subtitle. Prerequisite: consent of instructor. Course content is aligned with Colorado Culturally and Linguistically Diverse Competencies (CLD) and TESOL Teacher Preparation Standards. Students wishing to take a topics course must have a subject of study in mind which they wish to pursue; subjects or topics will not be furnished for them. Each student must have permission from the Chairman of the Teacher Education Department. Each student must design a program of study meeting the supervisory faculty member's approval. The CLD-579 - Topics in CLD or TESOL form must be filled out in triplicate (one for the student, one for the faculty member, one for the English Department Chairman) and approved prior to enrollment in CLD-579. Student enrollment without such approval will be cancelled. A student enrolled in CLD-579 will have one bi-weekly conference throughout the semester with the supervising faculty member (may take place via online).

Note

- Specific course content may vary based on instructor availability and topic demand.
- *15 Credits required for Post baccalaureate TESOL Certificate
- To add Endorsement Application, go to Colorado Department of Education's website, and complete "Application for an Added Endorsement Based on an Approved Program."

Master of Arts in Education, Curriculum and Instruction Emphasis

The goal of the five-semester Curriculum and Instruction emphasis is to develop strong planning and teaching skills in educators who are dedicated to ensuring all students, particularly students from diverse cultural and linguistic backgrounds, succeed academically.

Total credits: 30, including M.A. Academic Core of 9 credits

Academic Core Requirements for MA Candidates only

ED 507 - Integrated Instruction & Assessment

3 Credit(s)

This course supports candidates in aligning their beliefs and values to develop their teaching identity. Metacognitive processes will help candidates be aware of their own motives and empower them to actively participate in their own learning as they begin to develop their art of teaching. Candidates will design a sequence or unit of study following the Understanding by Design framework which includes digging deeper into formative and summative assessments and interpreting assessment data to teach responsively. Alternative methods of facilitating instruction and assessing student performance and understanding will be investigated and implemented to increase the candidate's understanding of their students' abilities, interests, and needs. Candidate's will also discover strategies for fostering successful community partnerships.

ED 534 - Multicultural Perspectives

3 Credit(s)

This course provides students with an overview of the role of cultural diversity in the classroom and its effect on teaching and learning. While exploring issues of race, class, culture, and power, students will develop a deeper

understanding of school demographics, perspectives on teaching and learning and the interaction between pedagogy and culture. Students will gain an understanding about the effects of different social, cultural, linguistic, and cognitive experiences on learner development, the impact this can have on their choices as teachers and leaders.

ED 557 - Research Methods

3 Credit(s)

Research methods is designed to provide candidates in the program with background knowledge of quantitative and qualitative research methods. The course will help candidates evaluate the appropriateness of each method when designing a research project. Candidates will develop mini- proposals for each type of research in preparation for implementing and reporting on their own research project.

Electives

ED 586 - Education Creation and Entrepreneurial Teachers

3 Credit(s)

The Educating Creative and Entrepreneurial Learners course will examine a variety of instructional strategies to foster engagement, understanding, and inquiry. This course will focus on student-directed and differentiated experiences to increase rigor and deepen learning.

ED 587 - Mentor Teacher Seminar I

3 Credit(s)

The Mentoring and Coaching Seminar I course is the co-requisite for ED 588 Mentoring and Coaching Internship I. This seminar course will support educators in developing their art of mentoring and coaching through intention, planning, practice, and reflection to actively engage in enhancing teaching practices and addressing systemic issues to aid in the transformation of schools.

Co-requisite(s): Admission to Mentor Endorsement Program and **ED 588**

ED 588 - Mentoring and Coaching Internship I

3 Credit(s)

The Mentoring and Coaching Internship I course is the co-requisite for ED 587 Mentor Seminar I. This internship will support educators in developing their art of mentoring and coaching through intention, planning, practice, and reflection to actively engage in enhancing teaching practices and addressing systemic issues to aid in the transformation of schools.

Grade Mode: P/F

Prerequisite(s):

Admission to Mentor Endorsement Program and **ED 587**

ED 590 - PLCs: Collaboration and Collective Responsibility

3 Credit(s)

Creating Collaborative Cultures and Collective Responsibility through Professional Learning Communities will challenge educators to alter long-held assumptions, beliefs, expectations, and habits. Candidates will examine the influences of beliefs and norms on classroom and school cultures. Additionally, candidates will explore how Professional Learning Communities can dramatically improve school performance, student engagement, and the self-efficacy of educators.

ED 591 - Capstone Project II

3 Credit(s)

In this Capstone II course educators will continue engaging in the action research process which involves collecting and analyzing data, reporting the results, and taking informed action. Educators will continue to reflect on and define their purpose for action research which may include building the reflective practitioner, making progress on school wide priorities, and building professional cultures. While planning and conducting action research, educators will respect the ethical obligations that educational researchers have and adhere to the codes and procedures involved.

ED 594 - Mentor Teacher Seminar II

3 Credit(s)

This internship will support educators in developing their art of mentoring and coaching through intention, planning, practice, and reflection to actively engage in enhancing teaching practices and addressing systemic issues to aid in the transformation of schools.

Prerequisite(s):

Admission to Mentor Endorsement Program and completion of ED 587

Co-requisite(s): ED 595

ED 595 - Mentoring and Coaching Internship II

3 Credit(s)

This internship will support educators in developing their art of mentoring and coaching through intention, planning, practice, and reflection to actively engage in enhancing teaching practices and addressing systemic issues to aid in the transformation of schools.

Grade Mode: P/F

Prerequisite(s):

Admission to Mentor Endorsement Program and completion of ED 588

Co-requisite(s): ED 594

ED 643 - Capstone I

3 Credit(s)

In this Capstone I course, educators will investigate the action research process which involves selecting a focus, identifying research questions, conducting a review of the literature, and generating a plan. Educators will reflect on and define their purpose for action research which may include building the reflective practitioner, making progress on school wide priorities, and building professional cultures. While planning and conducting action research, educators will recognize the ethical obligations that educational researchers have and adhere to the codes and procedures involved.

Additional Elective Requirements (9 Credits or equivalent)

Students will take or transfer in 9 semester hours of elective in an emphasis of their choice. Courses must be submitted to the Graduate Coordinator for approval.

Master of Arts in Education, Educational Leadership Program (Principal License)

The six-semester Educational Leadership program is designed to equip qualified and experienced educators with the knowledge and skills necessary to assume leadership positions in schools, particularly those of program supervisor/director or building principal/assistant principal. Studies include leadership; curriculum, instruction, and assessment; and school management, law and finance. The program emphasizes the role of a school leader as a collaborator and creator of a supportive and stimulating environment for children and teachers.

This course of study leads to a State of Colorado principal license.

Cognate Requirements

ED 503 - Understanding the Principalship

3 Credit(s)

This course is an introduction to the Principal Licensure program with assessment components, grounded in the Colorado's Principal Quality Standards, English Language Learner Standards, READ Act School Administrator Standards, and Standards for Educator Effectiveness. Candidates will be expected to critically examine each of Standards in terms of how they are implemented through policies and practices within their own districts while making recommendations for improving such policies based on current research and best practice.

Prerequisite(s):

Admission to principal licensure program

ED 505 - Inclusive and Responsive School Leadership

3 Credit(s)

This course will focus on how effective principals use inclusive and responsive leadership to promote equity among students, staff and the community. Candidates will draw upon research, theory and best-practice in diversity, equity and inclusion (DEI) to develop their skills in creating safe school environments that maximize support for student and staff well being and meaningful engagement with families and communities.

Prerequisite(s):

Admission to principal licensure program

ED 508 - School Law and Finance

3 Credit(s)

This course will provide an opportunity for administrative candidates to examine the ways in which legal and financial structures impact the operation of a school. Emphasis will be placed on legal obligations of school leaders and how these work in tandem with school funding processes to inform local policies, budgets, and administrative practices.

Prerequisite(s):

Admission to principal licensure program

ED 510 - Strategic and Ethical School Leadership

3 Credit(s)

This course will focus on how effective principals use strategic and ethical leadership to achieve strategic goals for students, educators, and themselves. Candidates will draw upon research, theory and best-practice to develop their skills in shared visioning, educator recruitment and hiring, educator retention and development, distributed leadership and leveraging strategic partnerships and resources sharing to achieve school and district goals.

Prerequisite(s):

Admission to principal licensure program

ED 515 - Principal Licensure Intern I

1 Credit(s)

During this 50 hour internship, field experience under the supervision of two building principals, one of which cannot be the building where the candidate is currently working or has worked, candidates will demonstrate competencies in the subject areas of Colorado Academic Standards, schools and society.*This course will also introduce administrative candidates to Action Research Project.*Students will pick a topic of educational interest or importance to be completed by the end of the endorsement*Students will be introduced to the IRB process and research procedures*Students will choose relevant educational topic(s)*Students will submit topic for approval (faculty and university)The principal internships will supplement the research and IRB process.

Prerequisite(s):

ED 503 Minimum Grade: B

ED 525 - Principal Licensure Intern II

1 Credit(s)

During this 50 hour internship, field experience under the supervision of two building principals (one of which cannot be in the building where the candidate is currently working or has worked) candidates will demonstrate competencies

in the subject areas of finance and school law. This course will also continue with administrative candidates Action Research Project.

Prerequisite(s):

ED 505 Minimum Grade: B

AND

ED 508 Minimum Grade: B

AND

ED 515 Minimum Grade: P

ED 528 - Instructional Leadership

3 Credit(s)

This course will prepare school leaders to assume roles as effective instructional leaders by implementing evidence-based practices in schoolwide management and improvement within a standards-based environment. Emphasis will be placed on managing curriculum and assessment in alignment with P-20 standards, supporting educator effectiveness through professional development and coaching, and supporting diverse students and families through tiered systems and responsive practices that honor diversity, equity and inclusion (DEI).

Prerequisite(s):

Admission to principal licensure program

ED 529 - Supervision and Evaluation of Instruction

3 Credit(s)

This course will prepare candidates for the supervision and evaluation of PK-12 educators to support effective instruction and enhance the academic achievement of PK-12 students. Candidates will gain an understanding best practices in observation, feedback, and using coaching modules to support educator reflection and growth. Candidates will also explore the role that potential bias can play in educator evaluation and develop skills for mitigating such bias within their practices as educational leaders.

Prerequisite(s):

Admission to principal licensure program

ED 535 - Principal Licensure Internship III

1 Credit(s)

During this 50 hour internship, field experience under the supervision of two building principals (one of which cannot be in the building where the candidate is currently working or has worked) candidates will demonstrate competencies in the subject areas of managing curriculum, instruction and assessment, supervision for improvement of instruction and building level assessment. Each area will include reflection papers and 50 hours of logged internship during the semester.

Prerequisite(s):

ED 525 Minimum Grade: B

ED 545 - Principal Licensure Internship IV

3 Credit(s)

During this 150 hour internship, field experience under the supervision of two building principals (one of which cannot be in the building where the candidate is currently working or has worked) candidates will demonstrate in a culminate final interview, competencies in the subject areas of schools and society, school law, fiscal management, personnel management, curriculum and instruction, assessment, supervision and building management. During this internship, candidates will write reflection papers, one on each topic and log 150 hours of internship during the semester. This course has the accumulation of the final/capstone presentation of the students Action Research Project.

Prerequisite(s):

ED 535 Minimum Grade: P

All candidates MUST successfully pass the Science of Reading exam administered in ED 545 Principal Internship IV to complete the program and be eligible for licensure

Academic Core Requirements for MA Candidates only

ED 507 - Integrated Instruction & Assessment

3 Credit(s)

This course supports candidates in aligning their beliefs and values to develop their teaching identity. Metacognitive processes will help candidates be aware of their own motives and empower them to actively participate in their own learning as they begin to develop their art of teaching. Candidates will design a sequence or unit of study following the Understanding by Design framework which includes digging deeper into formative and summative assessments and interpreting assessment data to teach responsively. Alternative methods of facilitating instruction and assessing student performance and understanding will be investigated and implemented to increase the candidate's understanding of their students' abilities, interests, and needs. Candidate's will also discover strategies for fostering successful community partnerships.

ED 534 - Multicultural Perspectives

3 Credit(s)

This course provides students with an overview of the role of cultural diversity in the classroom and its effect on teaching and learning. While exploring issues of race, class, culture, and power, students will develop a deeper understanding of school demographics, perspectives on teaching and learning and the interaction between pedagogy and culture. Students will gain an understanding about the effects of different social, cultural, linguistic, and cognitive experiences on learner development, the impact this can have on their choices as teachers and leaders.

ED 557 - Research Methods

3 Credit(s)

Research methods is designed to provide candidates in the program with background knowledge of quantitative and qualitative research methods. The course will help candidates evaluate the appropriateness of each method when designing a research project. Candidates will develop mini- proposals for each type of research in preparation for implementing and reporting on their own research project.

Master of Arts in Education, Post Baccalaureate Initial Teaching License - Elementary Education

Prerequisite to Professional Core

ED 501 - Perspectives in Teaching and Learning

3 Credit(s)

This course is a study of school, societal and cultural issues and their influences on teaching and learning. As an introductory course, the purpose is to learn about teaching as a career choice, the historical development of American education, social and political structures in the schools, and power groups influencing educational policy. Issues of educational reform will include civil rights, students' rights, ethnic, gender and racial issues, individualizing instructions, special education, learning theory models, (inclusive of diversity issues related to electronic media) and alternative school structures. Emphasis is placed on the orientation and development of a proficient and reflective professional educator.

ED 502 - The Exceptional Learner

3 Credit(s)

This course is designed to survey the foundations of special education, including historical, philosophical perspectives, legal issues and current trends in instruction and programming. Students will explore the role of general education as it relates to the education of the student with exceptional needs. Emphasis will be placed on developing knowledge of various disabling conditions, available resources and educational alternatives. Students will learn about the ethical and sociopolitical influences on prevention, intervention and educational programs for students with special needs, from birth through post-secondary ages. Learning characteristics and the diverse needs of students who receive special education services as well students who culturally and linguistically diverse will also be studied. From a pedagogically sound, as well as developmentally appropriate perspective, the similarities and differences within and between exceptionalities and typical development will be emphasized.

ED 547 - Teaching, Learning, and Technology

3 Credit(s)

This course is an introduction to the theories and applications of appropriate and effective uses of technology to achieve pedagogical goals. Content includes exploring emerging technologies, designing lessons aligned to the Colorado Essential Skills, integrating digital tools to strengthen teaching and improve student learning, identifying guidelines for designing and implementing online learning environments, comparing various theories of teaching and learning related to the design of virtual lessons/online programs, and describing effective instructional strategies for online learning. Using technology in K-12 classrooms is relevant to prepare students for success in post-secondary and workforce settings.

Prerequisite(s):

Teacher Education Background Check Passed

Pass Praxis II

Candidates are advised to take and pass all Praxis II exams prior to beginning the program and are required to take and pass all Praxis II exams prior to beginning the professional core.

Professional Core

ED 506 - Student Teaching-Elementary I

1 to 3 Credit(s)

This field experience is a required component of the post-baccalaureate teacher licensure program and provides candidates with a comprehensive experience in a public school setting. Candidates must complete all components outlined in the Student Teaching Handbook. A team of faculty supervisors and mentors will help the candidate acquire the necessary skills in the practice of building a community of learners while teaching and learning. The community of learners includes the student teacher, the cooperating mentor teacher, the university field supervisor, the building principal, and the classroom students. This student teaching experience requires a minimum of 640 hours of contact time over the course of an academic year.

Prerequisite(s):

Teacher Education Background Check Passed

ED 511 - STEM Methods

3 Credit(s)

This course provides a background on high leverage practices such as: explaining and modeling content, eliciting and interpreting, and diagnosing patterns of student thinking for STEM. The course will also include close examination of the P-6 Colorado Science and Mathematics Content Standards. This background prepares students to develop and implement STEM learning experiences for students at the elementary grade level. Emphasis is on the integration of STEM into the broader curriculum, especially literacy, and to instruction strategies that support success for all students, including linguistically and culturally diverse learners. Topics cover interpreting student work, checking student understanding, designing units, being precise with language in STEM content, and how to use inquiry.

Prerequisite(s):

Admission to Ed Prep Program and Clear fingerprint background check

ED 512 - Inclusive and Safe Classroom Management

3 Credit(s)

This course explores the foundational principles of effective classroom instruction, behavior evaluation, and management techniques while promoting a safe and healthy school environment. This course equips candidates with critical thinking skills to design and implement successful classroom management strategies, emphasizing student achievement through effective time management, communication, and record-keeping procedures. Candidates will also develop comprehensive management plans. Candidates will examine school law and professional ethics for educators. They will gain insights into the legal and ethical frameworks that guide their roles as educators, ensuring they are well-prepared to uphold the highest standards of professionalism and integrity. The content of this course addresses health and wellness topics, including conflict resolution, mediation, nutrition, emergency protocols, and first aid within the educational setting. Candidates will design and implement SEL curricula, considering diverse student needs and crisis prevention and intervention strategies. This course is essential for educators to create a safe, healthy, and inclusive learning environment.

NOTE:

- Licensure candidates will be required to wear photo identification as they participate in this field-experience.
- Photo IDs must be obtained PRIOR to the beginning of the field-experience component.
- Field-experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Teacher Education Background Check Passed

Co-requisite(s): A pre-professional, supervised, field-based experience

ED 521 - Science of Reading

3 Credit(s)

This foundational course in reading explores literacy development and the structure of language by

1. defining the relationship between cognitive and linguistic development
2. assessing literacy development
3. nurturing the development of emergent literacy, and
4. investigating and planning instruction for the five components of reading which include phonemic awareness, phonics, fluency, vocabulary, and comprehension

Prerequisite(s):

Admission to Post Bacc Program and Clear Fingerprint Background Check

ED 522 - Pedagogical Strategies for Cultural Competence

3 Credit(s)

This is a dynamic and transformative course designed to equip future educators with the essential knowledge and skills to foster cultural competence in the classroom. Students will engage in learning that enhances their ability to use data to better understand and respond to diversity in their respective schools and communities. They will critically examine the impact of cultural values and bias on school curriculum and teacher practice, while applying strategies aimed at creating more culturally responsive experiences for diverse children. Students will also deepen their understanding and practice in working with vulnerable students and families, including those facing abuse, trauma, generational poverty and other forms of crisis.

NOTE: A pre-professional, supervised, field-based experience is a course requirement. Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component. Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to Post Bacc Program and Clear fingerprint/background check

ED 560 - Educational Psychology

3 Credit(s)

This course supports teachers in developing practical and effective approaches to various forms of student assessment. Students will make distinctions between formative and summative assessments. Pre-service teachers will learn various approaches to gathering student and teacher feedback to facilitate students learning and guide instruction. The course

will explore grading systems that are consistent, reliable, and valid. This course has field lab hours, which are off-campus; students are responsible for their own transportation.

ED 561 - The Reading and Writing Connection

3 Credit(s)

This course delves into the art of effective teaching methods in the realms of reading and writing, highlighting the intricate link between these subjects. Furthermore, it addresses the reality that some students encounter difficulties in these areas. The course equips learners with the skills to employ a diverse range of assessments, encompassing both formal and informal approaches, to gauge a student's strengths and areas needing improvement. It will also elucidate the significance of employing various assessment methods and their impact on enhancing instruction and elevating student achievement. This course will involve lectures, discussions, and videos in a hybrid, online, or face-to-face model along with practice in the classroom. Students will complete associated hours of supervised field-based experiences (20 hours for undergraduate students) to observe and interact directly in educational environments. Field service hours are required for licensure. Documentation of verified hours will be collected as part of the undergraduate course. Students will be responsible for their own transportation to the field sites.

NOTE:

- A 20-hour, pre-professional, supervised, field-based experience is a course requirement.
- Licensure candidates will be required to wear photo identification as they participate in this field experience.
- Photo IDs must be obtained PRIOR to the beginning of the field-experience component.
- Field-experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to Post bacc Program and Clear fingerprint/background check

Student Teaching

ED 520 - Student Teaching-Elementary II

3 Credit(s)

This field experience is a required component of the post-baccalaureate teacher licensure program and provides candidates with a comprehensive experience in a public school setting. Candidates must complete all components outlined in the Student Teaching Handbook. A team of faculty supervisors and mentors will help the candidate acquire the necessary skills in the practice of building a community of learners while teaching and learning. The community of learners includes the student teacher, the cooperating mentor teacher, the university field supervisor, the building principal, and the classroom students. This student teaching experience requires a minimum of 640 hours of contact time over the course of an academic year.

Prerequisite(s):

Teacher Education Background Check Passed

Academic Core Requirements for MA Candidates only

ED 507 - Integrated Instruction & Assessment

3 Credit(s)

This course supports candidates in aligning their beliefs and values to develop their teaching identity. Metacognitive processes will help candidates be aware of their own motives and empower them to actively participate in their own learning as they begin to develop their art of teaching. Candidates will design a sequence or unit of study following the Understanding by Design framework which includes digging deeper into formative and summative assessments and interpreting assessment data to teach responsively. Alternative methods of facilitating instruction and assessing student performance and understanding will be investigated and implemented to increase the candidate's understanding of their students' abilities, interests, and needs. Candidate's will also discover strategies for fostering successful community partnerships.

ED 534 - Multicultural Perspectives

3 Credit(s)

This course provides students with an overview of the role of cultural diversity in the classroom and its effect on teaching and learning. While exploring issues of race, class, culture, and power, students will develop a deeper understanding of school demographics, perspectives on teaching and learning and the interaction between pedagogy and culture. Students will gain an understanding about the effects of different social, cultural, linguistic, and cognitive experiences on learner development, the impact this can have on their choices as teachers and leaders.

ED 557 - Research Methods

3 Credit(s)

Research methods is designed to provide candidates in the program with background knowledge of quantitative and qualitative research methods. The course will help candidates evaluate the appropriateness of each method when designing a research project. Candidates will develop mini- proposals for each type of research in preparation for implementing and reporting on their own research project.

Note for Candidates

Candidates may request transfer of up to 6 semester hours upon being admitted to the program. Candidates requesting transfer or substitution of prior coursework must declare so within the first semester of study.

Master of Arts in Education, Post Baccalaureate Initial Teaching Licensure - Secondary Education/K-12

Prerequisite to Professional Core

ED 501 - Perspectives in Teaching and Learning

3 Credit(s)

This course is a study of school, societal and cultural issues and their influences on teaching and learning. As an introductory course, the purpose is to learn about teaching as a career choice, the historical development of American education, social and political structures in the schools, and power groups influencing educational policy. Issues of educational reform will include civil rights, students' rights, ethnic, gender and racial issues, individualizing instructions, special education, learning theory models, (inclusive of diversity issues related to electronic media) and

alternative school structures. Emphasis is placed on the orientation and development of a proficient and reflective professional educator.

ED 502 - The Exceptional Learner

3 Credit(s)

This course is designed to survey the foundations of special education, including historical, philosophical perspectives, legal issues and current trends in instruction and programming. Students will explore the role of general education as it relates to the education of the student with exceptional needs. Emphasis will be placed on developing knowledge of various disabling conditions, available resources and educational alternatives. Students will learn about the ethical and sociopolitical influences on prevention, intervention and educational programs for students with special needs, from birth through post-secondary ages. Learning characteristics and the diverse needs of students who receive special education services as well students who culturally and linguistically diverse will also be studied. From a pedagogically sound, as well as developmentally appropriate perspective, the similarities and differences within and between exceptionalities and typical development will be emphasized.

ED 512 - Inclusive and Safe Classroom Management

3 Credit(s)

This course explores the foundational principles of effective classroom instruction, behavior evaluation, and management techniques while promoting a safe and healthy school environment. This course equips candidates with critical thinking skills to design and implement successful classroom management strategies, emphasizing student achievement through effective time management, communication, and record-keeping procedures. Candidates will also develop comprehensive management plans. Candidates will examine school law and professional ethics for educators. They will gain insights into the legal and ethical frameworks that guide their roles as educators, ensuring they are well-prepared to uphold the highest standards of professionalism and integrity. The content of this course addresses health and wellness topics, including conflict resolution, mediation, nutrition, emergency protocols, and first aid within the educational setting. Candidates will design and implement SEL curricula, considering diverse student needs and crisis prevention and intervention strategies. This course is essential for educators to create a safe, healthy, and inclusive learning environment.

NOTE:

- Licensure candidates will be required to wear photo identification as they participate in this field-experience.
- Photo IDs must be obtained PRIOR to the beginning of the field-experience component.
- Field-experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Teacher Education Background Check Passed

Co-requisite(s): A pre-professional, supervised, field-based experience

ED 547 - Teaching, Learning, and Technology

3 Credit(s)

This course is an introduction to the theories and applications of appropriate and effective uses of technology to achieve pedagogical goals. Content includes exploring emerging technologies, designing lessons aligned to the Colorado Essential Skills, integrating digital tools to strengthen teaching and improve student learning, identifying guidelines for designing and implementing online learning environments, comparing various theories of teaching and learning related

to the design of virtual lessons/online programs, and describing effective instructional strategies for online learning. Using technology in K-12 classrooms is relevant to prepare students for success in post-secondary and workforce settings.

Prerequisite(s):

Teacher Education Background Check Passed

ED 563 - Content Area Literacy - Secondary

3 Credit(s)

This is a graduate level course that covers approaches and strategies for teaching secondary reading in various subject areas. Topics include textbook selection and readability, comprehension skills, study skills, and meeting needs of diverse student populations.

Content Methods

Methods courses will vary by licensure area and can be taken during either semester of the first year, depending on course offerings and availability

ED 504 - Secondary Teaching and Learning Methods

3 Credit(s)

Students will examine constructivist theory and mindset specific to instructional methods or a selected content area. This class will provide opportunities for observing, standards-based lesson and unit planning, teaching lessons, and assessment for understanding in support of the student's field experience. This will include working with students individually, in small groups, and with the whole classroom.

Prerequisite(s):

Teacher Education Background Check-minimum score 1, Admission to Graduate Study in Teacher Education.

ED 567 - Methods of Teaching Math - Secondary

3 Credit(s)

This course is designed to support the beginning secondary math teacher. Presuming a solid foundation of conceptual knowledge in the content area, the course emphasizes the development of a framework of instructional knowledge and skills to provide successful learning for all students. Students must take at least 24 semester hours of credit in math.

ED 568 - Methods of Teaching Science-Secondary

3 Credit(s)

This course provides a background in constructivist, inquiry-based science instruction for middle school and high school students that corresponds to the P-12 CO Science Education Standards. Pre-service students will gain expertise in planning standards-based science instruction, science teaching strategies and assessment bringing coherence to the activities of science teaching and learning. Utilizing materials, resources and technology that support secondary science education, pre-service teachers will learn to integrate inquiry-based, project and problem-based teaching models and collaborative strategies into long-term and daily secondary instructional plans. Emphasis is on the integration of science

into the broader curriculum, especially literacy, and to instruction strategies that support success for all students, including linguistically and culturally diverse learners.

Student Teaching I

ED 577 - Student Teaching Secondary I

1 to 3 Credit(s)

This field experience is a required component of the post-baccalaureate teacher licensure program and provides candidates with a comprehensive experience in a public school setting. Candidates must complete all components outlined in the Student Teaching Handbook. A team of faculty supervisors and mentors will help the candidate acquire the necessary skills in the practice of building a community of learners while teaching and learning. The community of learners includes the student teacher, the cooperating mentor teacher, the university field supervisor, the building principal, and the classroom students. This student teaching experience requires a minimum of 640 hours of contact time over the course of an academic year.

Prerequisite(s):

Admission to the Educator Preparation Program

Pass Praxis II

Candidates are advised to take and pass all Praxis II exams prior to beginning the program and are required to take and pass all Praxis II exams prior to beginning the professional core.

Professional Core

ED 522 - Pedagogical Strategies for Cultural Competence

3 Credit(s)

This is a dynamic and transformative course designed to equip future educators with the essential knowledge and skills to foster cultural competence in the classroom. Students will engage in learning that enhances their ability to use data to better understand and respond to diversity in their respective schools and communities. They will critically examine the impact of cultural values and bias on school curriculum and teacher practice, while applying strategies aimed at creating more culturally responsive experiences for diverse children. Students will also deepen their understanding and practice in working with vulnerable students and families, including those facing abuse, trauma, generational poverty and other forms of crisis.

NOTE: A pre-professional, supervised, field-based experience is a course requirement. Licensure candidates will be required to wear photo identification as they participate in this field experience. Photo IDs must be obtained PRIOR to the beginning of the field experience component. Field experience labs are off-campus and students are responsible for their own transportation.

Prerequisite(s):

Admission to Post Bacc Program and Clear fingerprint/background check

ED 560 - Educational Psychology

3 Credit(s)

This course supports teachers in developing practical and effective approaches to various forms of student assessment. Students will make distinctions between formative and summative assessments. Pre-service teachers will learn various approaches to gathering student and teacher feedback to facilitate students learning and guide instruction. The course will explore grading systems that are consistent, reliable, and valid. This course has field lab hours, which are off-campus; students are responsible for their own transportation.

Student Teaching II

ED 578 - Student Teaching Secondary II

3 Credit(s)

This field experience is a required component of the post-baccalaureate teacher licensure program and provides candidates with a comprehensive experience in a public school setting. Candidates must complete all components outlined in the Student Teaching Handbook. A team of faculty supervisors and mentors will help the candidate acquire the necessary skills in the practice of building a community of learners while teaching and learning. The community of learners includes the student teacher, the cooperating mentor teacher, the university field supervisor, the building principal, and the classroom students. This student teaching experience requires a minimum of 640 hours of contact time over the course of an academic year.

Academic Core Requirements for MA Candidates only

ED 507 - Integrated Instruction & Assessment

3 Credit(s)

This course supports candidates in aligning their beliefs and values to develop their teaching identity. Metacognitive processes will help candidates be aware of their own motives and empower them to actively participate in their own learning as they begin to develop their art of teaching. Candidates will design a sequence or unit of study following the Understanding by Design framework which includes digging deeper into formative and summative assessments and interpreting assessment data to teach responsively. Alternative methods of facilitating instruction and assessing student performance and understanding will be investigated and implemented to increase the candidate's understanding of their students' abilities, interests, and needs. Candidate's will also discover strategies for fostering successful community partnerships.

ED 534 - Multicultural Perspectives

3 Credit(s)

This course provides students with an overview of the role of cultural diversity in the classroom and its effect on teaching and learning. While exploring issues of race, class, culture, and power, students will develop a deeper understanding of school demographics, perspectives on teaching and learning and the interaction between pedagogy and culture. Students will gain an understanding about the effects of different social, cultural, linguistic, and cognitive experiences on learner development, the impact this can have on their choices as teachers and leaders.

ED 557 - Research Methods

3 Credit(s)

Research methods is designed to provide candidates in the program with background knowledge of quantitative and qualitative research methods. The course will help candidates evaluate the appropriateness of each method when designing a research project. Candidates will develop mini- proposals for each type of research in preparation for implementing and reporting on their own research project.

Note for Candidates

Candidates may request transfer of up to 6 semester hours upon being admitted to the program. Candidates requesting transfer or substitution of prior coursework must declare so within the first semester of study.

Master of Arts in Education, SPED Generalist Initial License

Go to: Educational Preparation

Academic Core Requirements for MA Candidates only

ED 507 - Integrated Instruction & Assessment

3 Credit(s)

This course supports candidates in aligning their beliefs and values to develop their teaching identity. Metacognitive processes will help candidates be aware of their own motives and empower them to actively participate in their own learning as they begin to develop their art of teaching. Candidates will design a sequence or unit of study following the Understanding by Design framework which includes digging deeper into formative and summative assessments and interpreting assessment data to teach responsively. Alternative methods of facilitating instruction and assessing student performance and understanding will be investigated and implemented to increase the candidate's understanding of their students' abilities, interests, and needs. Candidate's will also discover strategies for fostering successful community partnerships.

ED 534 - Multicultural Perspectives

3 Credit(s)

This course provides students with an overview of the role of cultural diversity in the classroom and its effect on teaching and learning. While exploring issues of race, class, culture, and power, students will develop a deeper understanding of school demographics, perspectives on teaching and learning and the interaction between pedagogy and culture. Students will gain an understanding about the effects of different social, cultural, linguistic, and cognitive experiences on learner development, the impact this can have on their choices as teachers and leaders.

ED 557 - Research Methods

3 Credit(s)

Research methods is designed to provide candidates in the program with background knowledge of quantitative and qualitative research methods. The course will help candidates evaluate the appropriateness of each method when designing a research project. Candidates will develop mini- proposals for each type of research in preparation for implementing and reporting on their own research project.

Required Courses for Licensure

SPED 531 - SPED for Culturally Linguistically Diverse (CLD) Students

3 Credit(s)

This course focuses on issues and trends related to the assessment, instruction and planning requirements for culturally linguistically diverse learners with exceptional needs. Emphasis will feature the overrepresentation and underrepresentation of culturally diverse students in special education and gifted education programs. It will also explore language, literacy and cultural variables that influence instruction and assessment practices for students with disabilities who come from culturally and linguistically diverse backgrounds.

SPED 534 - Domains of Learning

3 Credit(s)

This course will survey learning theories relevant to the following domains: Cognitive (e.g. brain-based learning), Cognition & literacy, affective, social, behavior/psycho-motor, cultural and communicative. Learning styles and problem-solving processes will also be addressed in the course. The application of theoretical frameworks for domains to enhance student learning outcomes and literacy skills (phonics, phonemic awareness, vocabulary, fluency, and comprehension) will be required.

SPED 535 - Identification, Teaching SPED

3 Credit(s)

This course is designed to provide students with knowledge of the areas of exceptionalities needed in the special education planning process. The course will include skills necessary in the multidisciplinary process for identifying students strengths/needs in order to develop and implement Individualized Education and Transition Plans in collaboration with other special education and regular education professionals. Alternative teaching methods and approaches to instructional materials to ensure student (including students who are English language Learners and CLD) success and achievement will be the focus of the course. Candidate will explore intensive intervention programs and structure based on progress monitoring data to improve instruction for students with intensive learning needs who are not responding to the standard protocol at Tier 1 and Tier 2 of MTSS

SPED 540 - Assessment in Special Education

3 Credit(s)

This course is an introduction to assessments and measurements in an educational setting. Students will develop skills for the systematic process of gathering, interpreting, and organizing educationally relevant information based on laws, policies and legal provisions. Emphasis is placed on effective assessment principles and procedures developing both theoretical and practical knowledge for assessment-based, instructional decision making about the provision of special services to exceptional students and students from cultural and linguistically diverse backgrounds. A focus will be on collaboration with stakeholders to interpret and apply assessment results for the determination of eligibility for special education services. Valid assessment methods/types will be utilized in order to limit the misidentification of CLD and CLDE students. The use of technology, including assistive technology, with all students, including those students with special learning and communication needs will also be explored. A range of technologies will be examined, from low-tech devices such as simple switches to computers, adaptive devices, and software appropriate for students with disabilities. Basic standard setting, grading, testing ethics, locating and evaluating measures, program evaluation,

development of foundational skills for assessing literacy development for students with disabilities served in general education setting and classroom research will also be presented.

SPED 542 - Special Education Law

3 Credit(s)

The principles of IDEA and implications for educational programming and instruction will be presented. Section 504 requirements and implications for special and regular education will be presented. Special attention to the educational needs of culturally and linguistically diverse special needs students will be addressed.

SPED 558 - Student Teaching in SPED

3 Credit(s)

The course addresses student teacher state required field experience hours to be completed in a secondary school setting with a focus on transition planning. The experience provided during student teaching will involve placement in a total inclusion setting. This practice experience helps candidates acquire necessary skills to build a community of learners in a secondary setting. The student teaching experience requires a minimum of 120 hours in a secondary setting (inclusion in content areas where applicable). Through a combination of classroom experiences and lab hours, the students will be able to address the significant support needs of exceptional learners including English language learners and students with disabilities who come from culturally and linguistically diverse backgrounds. The instructional team shall be composed of the secondary special education students, student teacher, cooperating teacher, college supervisor, and the building administrator.

Note

- All students are required to declare during admission whether they are in licensure-only or Special Education Generalist Master's Program. Once you declare that you are in licensure-only program and begin, you cannot change it in the middle of the program.
- All students must take and pass the PRAXIS in approved elementary education content exam, SPED Generalist exam and Teaching Reading exam.

Master of Arts in Leadership Education Administration and Development (LEAD) with Emphasis in Higher Education Administration and Leadership (HEAL)

Go to: Educational Leadership

This program prepares higher education professionals to manage and lead in institutions of higher education, especially Hispanic Serving Institutions (HSIs), and to enhance the success of the students they serve.

Degree Requirements (36 credits)

Complete the following 3 Certificates

- Data Analytics and Decision-Making Certificate (9 credits)

- Educational Policy in LEAD Certificate (12 credits)
- Leadership Certificate (12 credits)

Plus the Higher Education Capstone

LEAD 598 - Capstone/Portfolio in Higher Education

3 Credit(s)

Program coherence and student learning are demonstrated through a public exhibition and faculty assessment of a Capstone course. The Capstone is required for graduation with a masters degree. This course is designed to document what students have learned about higher education as a field of study and practice. Through the completion of case studies, two Star papers (scholarly-professional), and a reflective presentation, students will present evidence of how their learning aligns with the program goals of the curriculum. Capstone serves as a formative and summative evaluation of student learning.

Master of Arts in Leadership Education Administration and Development (LEAD) with Emphasis in Superintendent Licensure

Go to: Educational Leadership

Degree Requirements (36 credits)

Complete the following 3 Certificates

- Educational Policy in LEAD Certificate (12 credits)
- Leadership Certificate (12 credits)
- Superintendent Licensure Certificate (9 credits)

Plus a Data Analysis Course

LEAD 560 - Data Analysis in Higher Education

3 Credit(s)

This course introduces the concepts and skills involved in understanding and analyzing research in a variety of areas in higher education. The course provides an overview of basic, general knowledge of various research methodologies. It emphasizes the conceptual underpinnings of statistical analysis of data, including univariate and bivariate descriptive statistics, sampling distributions, statistical estimation, hypothesis testing and procedures in testing statistical hypothesis for one and two sample designs. This course also enhances students' abilities to locate, read, comprehend, and critically analyze research articles and reports.

Master of Arts in Music Education

Go to: Music

The Master of Arts in Music Education degree furthers Adams State University's mission by providing educational opportunities for K-12 teachers to earn a master's degree in music education at a reasonable cost. The Music Education master's program furthers students' musical and professional growth, enhances the success of the students they serve, and provides graduate coursework necessary for additional salary credit. The degree offers two tracks, using the cohort model. For the first track, all courses are delivered online. The second track is a combined online/on-campus program. Students in this track enroll in the same online core and supporting courses as the first track. Students in the second track choose an area of concentration in performance, composition, or conducting, in lieu of electives. These courses are delivered face-to-face and require a two semester residency in addition to the summer residency at the beginning of the degree program.

Admission Requirements

Degree Requirements

- Minimum degree requirements are 30 hours.
- Students must maintain a cumulative GPA of at least 3.0 throughout the degree.

All candidates for a master's degree in music education must meet graduation requirements as set forth in the Adams State University Academic Catalog.

Music Education Online Track

Course Requirements (minimum 30 credits)

Required Core

MUED 565 - Introduction to Music Ed Research

3 Credit(s)

This course serves as an introduction to research methodologies used in music and music education. It provides a broad foundation in research design, including quantitative, qualitative, historical, philosophical and non-experimental models. In addition, students familiarize themselves with basic statistical concepts, the library, and standard reference tools and electronic resources for the purpose of research.

MUED 567 - Music Ed History and Philosophy

3 Credit(s)

This course will address the historical and philosophical foundations of music education in the United States, with a focus on aesthetics and the role of the arts in education. Students will formulate a personal philosophy of music education to guide choices in curriculum, teaching, and assessment.

MUED 568 - Sociology and Psychology of Music Education

3 Credit(s)

This course will address the sociological and psychological foundations of music education in the United States focusing on relationships to current trends and best practices.

MUED 596 - Music Education Curriculum Project

3 Credit(s)

This course will address the curriculum and assessment in music education culminating in a curriculum project to be put into practice in the classroom.

Supportive Studies

MUED 503 - Analytical Techniques

3 Credit(s)

This course will examine the principle forms and structural elements of music from the Renaissance through the twentieth century. This course will introduce students to a variety of approaches and philosophies of musical analysis, accomplished through listening and analysis of musical repertoire.

MUED 504 - Orchestration and Arranging

3 Credit(s)

This course will provide instruction in music orchestration and arranging techniques pertinent to music educators. Students will apply these techniques to arrangements for voice and contemporary band/orchestral instruments and ensembles.

MUED 534 - Music Literature and Pedagogy

3 Credit(s)

A study of choral and instrumental literature, pedagogical techniques, and rehearsal techniques appropriate for school ensembles. The course explores resource materials, pedagogical practice, and effective teaching strategies.

Additional Supportive Studies

MUED 521 - World Music and Culture

3 Credit(s)

This course will provide the conceptual foundations necessary to explore and integrate music from around the world into the K-12 music curriculum. Through case study, critical writing, audio and video example, and individual research, students will investigate, experience, and synthesize the importance of music as it relates to different cultures, customs, religions, and history. Students will learn how music is correlated to everyday activities in a variety of societies.

MUED 523 - Topics in Jazz and Rock

3 Credit(s)

This course will examine the development and principle styles in jazz and rock music in the 20th and 21st centuries. The course will look at the important developments in both styles through musical, historical, and cultural lenses. The goal of this course is to go beyond a broad overview of these styles, with students doing in-depth listening to seminal albums in both jazz and rock.

MUED 533 - American Music History

3 Credit(s)

This course is designed as a survey of the development of music in the current United States, from the Spanish colonization in the 16th century to present times. Topics addressed will include the various musical styles and genres, composers of the period and their compositions. Emphasis will be placed on developing a thorough knowledge of music literature of the time, being able to place this music in its proper historical and cultural context, as well as being able to incorporate it into the K-12 curriculum.

Music Education Online/On-campus Track with Concentrations In

- Composition
- Conducting
- Performing

Course Requirements (Minimum 30 Credits)

Required Core

MUED 565 - Introduction to Music Ed Research

3 Credit(s)

This course serves as an introduction to research methodologies used in music and music education. It provides a broad foundation in research design, including quantitative, qualitative, historical, philosophical and non-experimental models. In addition, students familiarize themselves with basic statistical concepts, the library, and standard reference tools and electronic resources for the purpose of research.

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MUED 534 - Music Literature and Pedagogy

3 Credit(s)

A study of choral and instrumental literature, pedagogical techniques, and rehearsal techniques appropriate for school ensembles. The course explores resource materials, pedagogical practice, and effective teaching strategies.

Area of Concentration

MUED 540 - Applied Lessons

2 Credit(s)

This course is required for the combined online/on-campus track of the Master of Arts in Music Education.

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2 Credit(s)

This course is required for the combined online/on-campus track of the Master of Arts in Music Education.

MUED 595 - Graduate Recital

1 Credit(s)

Preparation and presentation of a public recital of approximately 60 minutes of prepared music.

Co-requisite(s): MUED 541

Small Ensemble

(2 credits total-courses may be repeated)

MUED 546 - Jazz Ensemble

1 Credit(s)

An advanced instrumental jazz ensemble, open by audition. Repertoire is selected from a variety of jazz styles and periods.

OR

MUED 548 - Jazz Singers

1 Credit(s)

An advanced vocal jazz ensemble, open by audition to students who will be expected to perform a significant leadership role in the ensemble. Repertoire is selected from a variety of jazz and popular styles and periods.

OR

MUED 549 - Chamber Ensemble

1 Credit(s)

Selected groups including instrumental, vocal, and mixed ensembles for performance of music in specific periods and mediums.

OR

Large Ensemble

(2 credits total-courses may be repeated)

MUED 545 - Band

1 Credit(s)

Open to all students regardless of major field who demonstrate sufficient ability on a standard wind or percussion instrument.

OR

MUED 547 - Concert Choir

1 Credit(s)

Open to all qualified students with repertoire selected from standard and contemporary choral concert literature as well as music of other cultures, ethnicities and traditions.

OR

MUED 550 - Orchestra

1 Credit(s)

Open to all students, regardless of major field, who demonstrate sufficient ability on a standard orchestral instrument.

Note:

An on-campus residency during the first two semesters of the program is required for completion of courses in the concentration area. Please contact Dr. Matthew Schildt (mschildt@adams.edu) with any questions.

Master of Arts in Public Administration

Go to: Business

This is a fully online 36 credit master's degree offered with the option of either two tracks: Applied Public Administration or General Public Administration.

The program is designed for professionals who are already working in the public and non-profit sectors or pre-professionals who want to start a career in public service. The program mixes skills-based coursework with real practical experience working in public agencies. It will prepare its graduates to work in positions in the federal, state, and local government as well as non-profit organizations.

The degree is delivered through semester based, interactive, online courses. The program, which can be completed in 2 years, is designed for students who are also working full-time. This MA degree can lead to career advancement for public servants who want to move into management positions. It will also provide the skill development necessary for public managers to do their jobs more effectively.

Program Goals

- Provide a high quality, low cost, master's degree focusing on public administration.
- Provide students with maximum flexibility through use of fully online delivery.
- Employ a curriculum that mixes skills based course work with real practical experiences.
- Prepare pre-professional students with the skills to enter the public service.
- Provide professionals already working in public administration with the skills to advance their careers.

Track 1: Applied Public Administration

Required Core

MPA 500 - Introduction to Public Administration

3 Credit(s)

An introductory survey to the field of public administration, especially historical, political, and organizational approaches to ethical and reflective professional practice.

MPA 503 - Applied Research Methods in Public Administration

3 Credit(s)

This course provides an introduction to the major research methods used in public administration. The goal of the course is to acquaint students with the basic approaches, concepts, and tools of research with a focus on their application in public and non-profit settings.

MPA 510 - Practicum

1 Credit(s)

This course provides students with actual experiences, through projects and practical activities, in the practice of public administration in a professional setting. Students will work with practicing administrators in public/non-profit agencies under the direction of a workplace supervisor. This practicum will require students to work at least 50 hours and demonstrate an ability to apply the concepts and skills learned in the classwork to a professional setting through artifacts tied to MPA 503 and MPA 508.

MPA 516 - Practicum II

1 Credit(s)

This course provides students with actual experiences, through projects and practical activities, in the practice of fiscal project, and/or human resources management in a professional setting. Students will work with practicing administrators in public/non-profit agencies under the direction of a workplace supervisor. This practicum will require students to work at least 50 hours and demonstrate an ability to apply the concepts and skills learned in the classwork to a professional setting through artifacts tied to MPA 512 and MPA 514.

MPA 520 - Practicum III

3 Credit(s)

This course provides students with actual experiences, through projects and practical activities, in the assessment of public policies and procedures in a professional setting. Students will work with practicing administrators in public/non-profit agencies under the direction of a workplace supervisor. This practicum will require students to work at least 150 hours and demonstrate an ability to apply the concepts and skills learned in the classwork to a professional setting.

MPA 528 - Practicum IV

1 Credit(s)

This course provides students with actual experiences, through projects and practical activities, in a professional setting. The practicum will focus on elements of community planning and economic development. Students will work with practicing administrators in public/non-profit agencies under the direction of a workplace supervisor. The

practicum will require students to work at least 50 hours and demonstrate an ability to apply the concepts and skills learned in the classwork to a professional setting through artifacts ties to MPA 524 and 526.

MPA 530 - Public Policy Analysis

3 Credit(s)

This course examines the multiple ways in which public policy is made in the U.S. including the various processes of policy making and the actors and institutions involved in overseeing those processes. It also examines a number of the pressing policy issues facing the nation today as well as some of the solutions that have been tried or proposed.

MPA 533 - Organizational and Community Behavior

3 Credit(s)

Examines the organizational and community context in which public manager must operate. Including a focus on why people behave the way they do in organizations and what can be done to change those behaviors. This includes the most effective communications strategies used in dealing with community groups, advisory boards and councils. The course will review a wide range of situations and examples of human behavior and connect them in foundational theories and effective practical management methods.

MPA 550 - Public Administration Capstone

3 Credit(s)

The Capstone Course offers each student the opportunity to demonstrate mastery of the theory and practice of public administration by applying the knowledge and skills gained in the MPA and MBA-PA programs. This involves completing a portfolio project reflecting the cumulative knowledge gained from these experiences.

Prerequisite(s):

Admission to MPA or MBA program

Elective Coursework - 15 Credits from MPA or MBA program

Track 2: General Public Administration

Required Core

MPA 500 - Introduction to Public Administration

3 Credit(s)

An introductory survey to the field of public administration, especially historical, political, and organizational approaches to ethical and reflective professional practice.

MPA 503 - Applied Research Methods in Public Administration

3 Credit(s)

This course provides an introduction to the major research methods used in public administration. The goal of the course is to acquaint students with the basic approaches, concepts, and tools of research with a focus on their application in public and non-profit settings.

MPA 530 - Public Policy Analysis

3 Credit(s)

This course examines the multiple ways in which public policy is made in the U.S. including the various processes of policy making and the actors and institutions involved in overseeing those processes. It also examines a number of the pressing policy issues facing the nation today as well as some of the solutions that have been tried or proposed.

MPA 533 - Organizational and Community Behavior

3 Credit(s)

Examines the organizational and community context in which public manager must operate. Including a focus on why people behave the way they do in organizations and what can be done to change those behaviors. This includes the most effective communications strategies used in dealing with community groups, advisory boards and councils. The course will review a wide range of situations and examples of human behavior and connect them in foundational theories and effective practical management methods.

MPA 550 - Public Administration Capstone

3 Credit(s)

The Capstone Course offers each student the opportunity to demonstrate mastery of the theory and practice of public administration by applying the knowledge and skills gained in the MPA and MBA-PA programs. This involves completing a portfolio project reflecting the cumulative knowledge gained from these experiences.

Prerequisite(s):

Admission to MPA or MBA program

Elective Coursework - 21 Credits from MPA or MBA program

Master of Arts in United States History

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

The History, Anthropology, Philosophy, Political Science, Spanish (HAPPSS) Department offers a Master of Arts in United States History. The goals of the United States history program are to satisfy students' desires for additional directed study of United States history, to assist teachers in meeting highly qualified status under NCLB, and to provide access for students to earn an M.A. degree before going on to doctoral studies. All professors in this program hold Ph.D.s and are committed to developing and encouraging students to achieve their academic potential. The degree is delivered using a mixture of face-to-face and Internet courses.

Degree Requirements

Required Core

HIST 500 - Historiography and Historical Methods

3 Credit(s)

A historiographical seminar in which students learn and demonstrate a mastery of a variety of methods historians use to understand the past.

HIST 591 - Thesis

3 Credit(s)

This course is the culminating experience for the MA program in which students demonstrate mastery of the discipline by producing an acceptable Master's Thesis. Successful completion of 21 hours of graduate-level work in History.

Context and Content

24 credit hours from the following menu selected in consultation with department chair.

HIST 501 - State History

3 Credit(s)

A graduate-level survey of the history of a particular state, with emphasis on how meta and national phenomenon impacted a given state, as well as events and phenomena unique to the state.

HIST 505 - American West

3 Credit(s)

This course is a survey of the American West with an emphasis on interpretation by historians. Admission to the Master of Arts program is required.

HIST 507 - Latino History

3 Credit(s)

This course will give special attention to the loss of land in the late nineteenth century, community formation during the early twentieth century, and the Chicano Movement of the late 1960's and early 1970's. At a deeper level, this course

explores both the strengths and weaknesses in the relevant historiography and fundamental questions about the practice of history and the forces that form and serve as custodians of memory.

HIST 510 - Teaching History

3 Credit(s)

This course explores best practices and trends in the teaching of history at the secondary and collegiate levels.

HIST 520 - Topics in World History

3 Credit(s)

This course will involve intensive reading, analysis, and discussion of selected topics/controversies in world history.

HIST 521 - Women in US History

3 Credit(s)

This course examines the role of women in American history with special emphasis on how the story of women is told by historians over time. It examines not only the lives of many famous white women, but also the experiences of women from various ethnicities and economic backgrounds. In addressing how Americans construct their understanding of women's lives in the U.S., this course will also reassess how focusing on women's lives might alter one's understanding of the broader patterns and interpretations of American history.

HIST 522 - Gilded Age and Progressive Era

3 Credit(s)

This course examines the United States from the end of Reconstruction through World War I. The Gilded Age covers the period of intense economic expansion after the Civil War, and examines the expansion of big business, the growth of the labor movement, and the crisis of the 1890's. The second half of the course studies the period of intense reform known as the Progressive Era, and concludes with U.S. participation in the First World War. Topics will include American overseas expansion, immigration, the suffrage movement, and the rise of governmental economic regulation.

HIST 526 - U.S. in the Era of World Wars

3 Credit(s)

A study of the United States History during World War I and World War II, or focused on either War, with special attention devoted to diplomatic, social, and political developments of the specific period under study with emphasis on the impact of immigration, urbanization, technology, and America's increasing involvement in world affairs.

HIST 540 - U.S. Presidency

3 Credit(s)

A study of the United States Presidency from 1789 to the present., with special attention devoted to the changing scope

and function of the office in the changing context of broader American History. Other topics of particular interest are the key figures who have altered the institution and the role of crises in changing the scope and functioning of the office. The course with separate subtitles can be repeated no more than 3 times.

HIST 546 - Borderlands

3 Credit(s)

This course explores borderlands as a site of historical scholarship with special emphasis on the southwestern United States and the United States-Mexico border.

HIST 550 - US Sports History

3 Credit(s)

A study of the history of sports and leisure in the United States Presidency from colonial times to the present, with special attention devoted to the changing social context in which sporting activities have taken place. Other topics of particular interest are the roles of race and gender in shaping the world of sport, and the roles of marketing, professional organizations, and media such as television in examining how sport has become part of the fabric of American life. This course views sport both as reflective of broader trends in American society but also as a catalyst of change.

HIST 551 - Atlantic History

3 Credit(s)

This course explores the Atlantic world as a field of historical scholarship with a special focus on European colonization of the Americas, African slavery, and the Age of Revolutions.

HIST 563 - Civil War and Reconstruction

3 Credit(s)

A graduate-level study of the antebellum South, sectional discord, armed conflict, and reconstruction of the Union.

HIST 568 - U.S.-Latin American Relations

3 Credit(s)

This course will examine U.S. - Latin Relations from the Monroe doctrine to the present with a more intensive and analytical focus on cold-war relations and the shift to post-cold-war dynamics.

HIST 579 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

HIST 590 - History Practicum

3 Credit(s)

A graduate-level practicum in the development and of United States History curriculum (education and public history).

HIST 592 - Workshop

0.5 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

HIST 599 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Head.

Master of Business Administration, Finance Emphasis

Master of Business Administration

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The online M.B.A. curriculum is well suited for people with either business or non-business undergraduate degrees. You'll spend six continuous semesters, or two years, learning key business, health administration, leadership, and public administration concepts to make you more effective in your current job or to open new employment opportunities.

The online M.B.A. curriculum offers a level of quality and rigor consistent with Adams State's reputation for excellence as an educational institution. The distance M.B.A. program welcomes students from around the globe.

Master of Business Administration Core Requirements

BUS 500 - Leadership Skills for Managers

3 Credit(s)

This course teaches practical skills required for effective management at all levels of an organization, and is designed to increase a learner's understanding of key concepts and procedural guidelines related to organizational management, human resource, and leadership. The purpose is to be equipped to deal effectively with managerial challenges dealing with people.

BUS 505 - Creating Consumer Value

3 Credit(s)

This course presents learners with a comprehensive approach to creating consumer value. This includes marketing and

brand management in for-profit firms as well as identifying and meeting consumer needs in non-profit and governmental organizations. Topics include segmentation and targeting of consumers; the positioning levers of product, price, promotion, and distribution; and brand management.

ECON 505 - Managerial Economics

3 Credit(s)

This course demonstrates how economics theory is applied to national and international managerial decision-making. The course covers topics such as demand analysis, production and cost functions, market structure, managerial understanding of public policy, and international trade finance topics. Pre-req.-Undergraduate Economics course with a grade of C or higher.

BUS 520 - Managerial Accounting

3 Credit(s)

This course provides a review of financial reporting standards and statements and analysis of those financial statements. Managerial accounting principles will be explored as well as budgeting, cost allocation, accumulation, cost behavior, and relevant costs; revenues are approached from a managers' perspective. Prerequisite: undergraduate accounting course with a grade of C or higher.

BUS 525 - Financial Analysis

3 Credit(s)

Students will embark on studying basic financial principles and enhance that with understanding various valuation concepts and methods. Emphasis is also placed on capital budgeting and long term financing as well as working capital management. The course will blend time-tested finance principles and the latest advancements with the practical perspectives of the financial manager. Prerequisite: undergraduate accounting course with a grade of C or higher.

Prerequisite(s):

BUS 520 Minimum Grade: C

BUS 540 - Strategy

3 Credit(s)

In this course, learners examine tools and techniques for competitive analysis, strategic planning, and strategy implementation. Learners gain knowledge of the tools and concepts needed to develop a business strategy including macro environmental scanning, industry and competitive analysis, value chain analysis, SWOT analysis, identification of critical success factors and driving forces, and development of strategic alternatives and recommendations.

Finance Emphasis

BUS 531 - Multinational Financial Management

3 Credit(s)

Multinational Financial Management course has two emphases: one on the basics and the other on a managerial

perspective. As international capital markets of the world become more integrated, an understanding of international financial management has become important for U.S. corporate decision making. This course provides students with groundwork for analysis that will serve them well in their future careers. The decision-making process in this course will teach students how to make knowledgeable managerial decisions in an ever changing global financial setting.

Prerequisite(s):

BUS 525 Minimum Grade: B-

BUS 532 - Portfolio Management and Investment Analysis

3 Credit(s)

The unifying theme of this course is that security markets are almost efficient, meaning that most securities are priced appropriately given their risk and return attributes. The course is a blend of practical and theoretical coverage combined with a complete digital solution to focus on making investment decisions from the perspective of the portfolio manager. This course also covers the Series 7 License and is designed to prepare the student for taking the National Association of Securities Dealers General Securities Representative Exam.

Prerequisite(s):

BUS 525 Minimum Grade: B-

BUS 533 - Financial Markets and Institutions

3 Credit(s)

This course is a great reflection of the latest developments from the field of financial markets. It helps students understand why financial markets exist, how financial institutions serve these markets, and what services those institutions offer. The course also focuses on the management, performance, and regulatory aspects of financial institutions and explores the functions of the Federal Reserve System, as well as the major debt and equity security markets, and derivative security market.

Prerequisite(s):

BUS 525 Minimum Grade: B-

BUS 534 - Finance Capstone

3 Credit(s)

This course uses a case study approach to solve complicated corporate problems and links managerial decisions to capital markets and the expectations of investors. Students will gain a deeper understanding of financial issues that they encounter in their professional career. At the core of the cases is a valuation task that requires students to look to financial markets for guidance in resolving the case problem. The focus on value helps the students understand the impact of the firm on the world around it.

Prerequisite(s):

BUS 525 Minimum Grade: B-
AND

BUS 531 Minimum Grade: B-

AND

BUS 532 Minimum Grade: B-

AND

BUS 533 Minimum Grade: B-

Master of Business Administration, Healthcare Emphasis

Go to: Business

Master of Business Administration

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The online M.B.A. curriculum is well suited for people with either business or non-business undergraduate degrees. You'll spend six continuous semesters, or two years, learning key business, health administration, leadership, and public administration concepts to make you more effective in your current job or to open new employment opportunities.

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Master of Business Administration Core Requirements

BUS 500 - Leadership Skills for Managers

3 Credit(s)

This course teaches practical skills required for effective management at all levels of an organization, and is designed to increase a learner's understanding of key concepts and procedural guidelines related to organizational management, human resource, and leadership. The purpose is to be equipped to deal effectively with managerial challenges dealing with people.

BUS 505 - Creating Consumer Value

3 Credit(s)

This course presents learners with a comprehensive approach to creating consumer value. This includes marketing and brand management in for-profit firms as well as identifying and meeting consumer needs in non-profit and governmental organizations. Topics include segmentation and targeting of consumers; the positioning levers of product, price, promotion, and distribution; and brand management.

ECON 505 - Managerial Economics

3 Credit(s)

This course demonstrates how economics theory is applied to national and international managerial decision-making. The course covers topics such as demand analysis, production and cost functions, market structure, managerial

understanding of public policy, and international trade finance topics. Pre-req.-Undergraduate Economics course with a grade of C or higher.

BUS 520 - Managerial Accounting

3 Credit(s)

This course provides a review of financial reporting standards and statements and analysis of those financial statements. Managerial accounting principles will be explored as well as budgeting, cost allocation, accumulation, cost behavior, and relevant costs; revenues are approached from a managers' perspective. Prerequisite: undergraduate accounting course with a grade of C or higher.

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Prerequisite(s):

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3 Credit(s)

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Healthcare Emphasis

HCA 545 - Public Health

3 Credit(s)

This course provides a comprehensive coverage of traditional public health responsibilities- assessing the burden of disease, preventing and controlling health threats, and developing policies and public administration responses to improve health --in a contemporary framework. It covers the basics of administration, including public health law, human resources management, budgeting and financing, and legislative relations in public health.

HCA 550 - Elderly and Managed Care

3 Credit(s)

This course will consider long-term service delivery programs designed to meet the special needs of seniors. The

course will include a managerial overview of seniors' housing and care and will analyze the demographics of aging, the role of financing, and the evolving marketplace.

HCA 555 - Health Policy

3 Credit(s)

Critical analysis of federal and state health policy processes, outcomes, and issues. This course allows students to examine the efficiency and effectiveness of health policy issues associated with access, cost, and quality. Emphasis is placed on policy formulation, implementation, assessment, and modification.

Prerequisite(s):

HCA 303 Minimum Grade: C

HCA 590 - Practicum

3 Credit(s)

The MHA Practicum: executive skill development is designed to develop and enhance the skills necessary for success as a healthcare executive through management practice in health care administration. The course provides the students the opportunity to gain practical experience and integrate classroom knowledge and theory in an administrative setting within the health care industry.

OR

HCA 595 - HCA Thesis

3 Credit(s)

The research project serves as a capstone experience as students complete the MBA emphasis area of study. Students will complete a research project involving an introduction to the problem or research question, comprehensive in-depth review of the current literature, research methodology, data collection, and analysis if applicable, and conclusions.

Prerequisite(s):

BUS 515 Minimum Grade: C

Master of Business Administration, Leadership Emphasis

Master of Business Administration

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BUS 520 - Managerial Accounting

3 Credit(s)

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BUS 525 - Financial Analysis

3 Credit(s)

Students will embark on studying basic financial principles and enhance that with understanding various valuation concepts and methods. Emphasis is also placed on capital budgeting and long term financing as well as working capital management. The course will blend time-tested finance principles and the latest advancements with the practical perspectives of the financial manager. Prerequisite: undergraduate accounting course with a grade of C or higher.

Prerequisite(s):

BUS 520 Minimum Grade: C

BUS 540 - Strategy

3 Credit(s)

In this course, learners examine tools and techniques for competitive analysis, strategic planning, and strategy implementation. Learners gain knowledge of the tools and concepts needed to develop a business strategy including macro environmental scanning, industry and competitive analysis, value chain analysis, SWOT analysis, identification of critical success factors and driving forces, and development of strategic alternatives and recommendations.

Leadership Emphasis

BUS 545 - Leading Entrepreneurial Organizations

3 Credit(s)

Successful organizations emphasize learning to sustain their competitive advantage. This course will study entrepreneurship and intrapreneurship. Areas of emphasis include uncovering the methodologies and characteristics that foster innovations and achieve meaningful change in business that leads to the creation and implementation of profitable business opportunities.

BUS 550 - Technology and Innovation

3 Credit(s)

This course adopts the perspective of a general manager-- an individual charged with diagnosing complex situations and resolving them in ways that enhance organizational performance. The course emphasizes how general management decisions may contribute to the creation and appropriation of economic value through innovation.

BUS 555 - Leading for Results

3 Credit(s)

This course focuses on how leaders mobilize others within their organization to get extraordinary things done. You will analyze what characteristics you need to develop to achieve your own professional goals and reflect on ways you can develop your competencies as a leader.

BUS 560 - Leadership Capstone

3 Credit(s)

This capstone course integrates knowledge gained in the previous graduate business courses. It centers on the theme that organizations achieve sustained success when their managers have astute, timely, strategic game plans, and they implement these plans with proficiency. This class incorporates the "big picture" and cuts across the whole spectrum of business and leadership.

Master of Business Administration, Public Administration Emphasis

Master of Business Administration

Online delivery allows today's busy working professional the opportunity to participate in a program without putting your career on hold. Whether you travel extensively, have a job that prevents you from attending traditional on-campus classes, or have family obligations that limit your available time, the flexibility of online delivery brings the Adams State University M.B.A. program to you, on your schedule.

The online M.B.A. curriculum is well suited for people with either business or non-business undergraduate degrees. You'll spend six continuous semesters, or two years, learning key business, health administration, leadership, and public administration concepts to make you more effective in your current job or to open new employment opportunities.

The online M.B.A. curriculum offers a level of quality and rigor consistent with Adams State's reputation for excellence as an educational institution. The distance M.B.A. program welcomes students from around the globe.

Master of Business Administration Core Requirements

BUS 500 - Leadership Skills for Managers

3 Credit(s)

This course teaches practical skills required for effective management at all levels of an organization, and is designed to increase a learner's understanding of key concepts and procedural guidelines related to organizational management, human resource, and leadership. The purpose is to be equipped to deal effectively with managerial challenges dealing with people.

BUS 505 - Creating Consumer Value

3 Credit(s)

This course presents learners with a comprehensive approach to creating consumer value. This includes marketing and brand management in for-profit firms as well as identifying and meeting consumer needs in non-profit and governmental organizations. Topics include segmentation and targeting of consumers; the positioning levers of product, price, promotion, and distribution; and brand management.

ECON 505 - Managerial Economics

3 Credit(s)

This course demonstrates how economics theory is applied to national and international managerial decision-making. The course covers topics such as demand analysis, production and cost functions, market structure, managerial understanding of public policy, and international trade finance topics. Pre-req.-Undergraduate Economics course with a grade of C or higher.

BUS 520 - Managerial Accounting

3 Credit(s)

This course provides a review of financial reporting standards and statements and analysis of those financial statements. Managerial accounting principles will be explored as well as budgeting, cost allocation, accumulation, cost

behavior, and relevant costs; revenues are approached from a managers' perspective. Prerequisite: undergraduate accounting course with a grade of C or higher.

BUS 525 - Financial Analysis

3 Credit(s)

Students will embark on studying basic financial principles and enhance that with understanding various valuation concepts and methods. Emphasis is also placed on capital budgeting and long term financing as well as working capital management. The course will blend time-tested finance principles and the latest advancements with the practical perspectives of the financial manager. Prerequisite: undergraduate accounting course with a grade of C or higher.

Prerequisite(s):

BUS 520 Minimum Grade: C

BUS 540 - Strategy

3 Credit(s)

In this course, learners examine tools and techniques for competitive analysis, strategic planning, and strategy implementation. Learners gain knowledge of the tools and concepts needed to develop a business strategy including macro environmental scanning, industry and competitive analysis, value chain analysis, SWOT analysis, identification of critical success factors and driving forces, and development of strategic alternatives and recommendations.

Public Administration Emphasis

BUS 580 - Public/Nonprofit Management

3 Credit(s)

This course is designed to examine public and nonprofit management. This type of management is driven by mission and/or executive/legislative direction. Students will learn both the theory and practice of public and nonprofit management, using the concept case method and service learning opportunities.

BUS 585 - Public Budgeting and Finance

3 Credit(s)

The course is designed to provide the student with an understanding of the primary financial management issues and decisions that confront senior management in the nonprofit and the public sectors. Students will gain an understanding and examine financial analysis techniques from both a practical and strategic perspective for operating and capital decisions.

BUS 590 - Policy Analysis

3 Credit(s)

This course introduces the study of public policy and analysis. It provides an overview of key policy areas and examines three aspects of public policy study: (a) government institutions and the policy making process, (b) the

concepts and methods of policy analysis, and (c) the role of policy analysis in clarifying public problems and helping citizens and policymakers choose from among policy alternatives.

BUS 595 - Public Administration Capstone

3 Credit(s)

The Capstone Course offers each student the opportunity to demonstrate mastery of the theory and practice of public administration by applying the knowledge and skills gained in the MBA-PA program. This involves completing a portfolio project reflecting the cumulative knowledge gained from these experiences.

Master of Science in Kinesiology, Applied Sport Psychology Emphasis (online)

Go to: Department of Kinesiology

This online program comprises 36 credits and offers a wide range of courses and practical experiences in order to provide students the knowledge and skills necessary to become a sport psychology professional. All courses are offered online which allows for greater flexibility and optimum convenience for students who hold full-time careers or cannot relocate. Students can complete the program in two years, which includes all coursework and internships.

Required Courses

KIN 503 - Introduction to Research

3 Credit(s)

This is an introductory research course for graduate students focusing on the area of physical education and human performance. Participants will develop an understanding of the purpose and importance of research in this specific area, overview basic elements of quantitative, qualitative, mixed methods, and action research methods, enhance skills to evaluate and critique problem statement for a specific research study, and gain an appreciation for conducting research.

KIN 506 - Psychology of Coaching

3 Credit(s)

This course will focus on the psychological principles of coaching and explore evidence-based practices in application to coaching. An emphasis will be placed on developing an understanding of human behavior in the sport context and how coaches can apply that knowledge to improve well-being and performance. There will also be a focus on applying these concepts to coaching diverse populations integrated throughout the course.

KIN 509 - Sports Physiology

3 Credit(s)

This course is designed to emphasize background knowledge in Exercise Physiology and Sport Science. Students will learn advanced structure and function of human neuromuscular and cardiovascular systems and develop working knowledge of adaptations made by these systems during training. Students will also learn to apply knowledge learned about external factors affecting these systems including the environmental conditions, nutrition, and ergogenic aids.

KIN 510 - Positive Psychology

3 Credit(s)

A study of positive psychology, specifically looking at well-being as it relates to participants in sport and performance settings.

KIN 520 - Mental Health in Sport

3 Credit(s)

A study of psychological disorders and abnormal human behavior as it relates to participants in sport and performance settings.

KIN 538 - Diversity and Equity in Sport

3 Credit(s)

This course explores aspects of diversity and equity in sport. This course has a two-fold purpose: first, it is designed to provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask questions and think critically about diversity, equity, and inclusion in sport and interaction with society. This course will explore issues around diversity, equity, and inclusion in sport and society.

KIN 550 - Applied Sport Psychology

3 Credit(s)

This course focuses on application of sport psychology principles in practice. This course will focus on the scientist-practitioner model in relation to using evidence-based practices. There will be an emphasis on learning the various mental skills applied to teaching athletes, coaches, and teams; such as motivation, focus, composure, confidence, resiliency, quality practice, well-being, visualization, mastery and team cohesion.

KIN 560 - Mental Strength and Conditioning

3 Credit(s)

This graduate course focuses on advanced techniques and practices of mental strength and conditioning and explores evidence based practices in mental training. Effective coaching strategies, behavioral issues, and personal roles of mental strength coaches that enhance athletic performance will be discussed. This course will focus on the differences between levels in competitive sports, including youth programs, interscholastic, intercollegiate levels, professional/Olympic as well as other areas such as fitness/wellness, military and business.

KIN 570 - Ethics in Applied Sports Psychology

3 Credit(s)

This course will explore ethical and legal issues that applied sport psychology professionals often encounter in their work as teachers, researchers, and practitioners. This course is designed to educate the student on the Association for Applied Sport Psychology (AASP) Code of Ethics, which consists of 6 ethical principles and 26 standards and to meet standards for the required ethics course to sit to take the AASP Certified Mental Performance Consultant exam.

KIN 581 - Case Studies in Applied Sport Psychology

3 Credit(s)

Case studies of real life scenarios in the field of applied sport psychology will serve as discussion points and provide students the opportunity to apply their knowledge and skills in sport psychology to develop methods for how to work with a variety of populations and potential scenarios within applied sport psychology.

KIN 585 - Practicum in Applied Sport Psychology

3 Credit(s)

The practicum is designed to provide a structured practical experience for which the student is preparing. The assignment must be under the supervision of a qualified professional. The practicum is designed to provide the graduate student an actual field based experience in a health, physical education, recreation, or athletic environment. The experience should give the student the opportunity to work with a working professional while enhancing and expanding the skills developed during their undergraduate and graduate programs. The practicum will consist of a minimum of 100 hours.

Prerequisite(s):

Completed a minimum of 18 graduate credit hours including KIN 503 Minimum Grade: C

KIN 586 - Practicum II in Applied Sport Psychology

3 Credit(s)

The practicum is designed to provide a structured practical experience for which the student is preparing. The assignment must be under the supervision of a qualified professional. The practicum is designed to provide the graduate student an actual field-based experience in a health, physical education, recreation, or athletic environment. The experience should give the student the opportunity to work with a working professional while enhancing and expanding the skills developed during their undergraduate and graduate programs. The practicum will consist of a minimum of 100 hours.

Prerequisite(s):

Complete a minimum of 18 graduate credit hours including KIN 503. Minimum Grade: C

Master of Science in Kinesiology, Coaching Emphasis (online)

Go to: Department of Kinesiology

The online Master of Science in Coaching at Adams State University is a 36-credit hour program that offers a wide range of courses and practical experiences in order to provide students with the knowledge and skills necessary to become a more highly qualified coach.

Required Courses

KIN 503 - Introduction to Research

3 Credit(s)

This is an introductory research course for graduate students focusing on the area of physical education and human performance. Participants will develop an understanding of the purpose and importance of research in this specific area, overview basic elements of quantitative, qualitative, mixed methods, and action research methods, enhance skills to evaluate and critique problem statement for a specific research study, and gain an appreciation for conducting research.

KIN 504 - Methods of Coaching

3 Credit(s)

This graduate course focuses on the foundations of athletic coaching and explores evidence based practices in coaching. Effective coaching strategies, behavioral issues, and personal roles of coaches that enhance athletic performance will be discussed. This course will focus on the differences between levels in competitive sports, including youth programs, interscholastic, and intercollegiate levels as well as coaching diverse populations.

KIN 506 - Psychology of Coaching

3 Credit(s)

This course will focus on the psychological principles of coaching and explore evidence-based practices in application to coaching. An emphasis will be placed on developing an understanding of human behavior in the sport context and how coaches can apply that knowledge to improve well-being and performance. There will also be a focus on applying these concepts to coaching diverse populations integrated throughout the course.

KIN 509 - Sports Physiology

3 Credit(s)

This course is designed to emphasize background knowledge in Exercise Physiology and Sport Science. Students will learn advanced structure and function of human neuromuscular and cardiovascular systems and develop working knowledge of adaptations made by these systems during training. Students will also learn to apply knowledge learned about external factors affecting these systems including the environmental conditions, nutrition, and ergogenic aids.

KIN 520 - Mental Health in Sport

3 Credit(s)

A study of psychological disorders and abnormal human behavior as it relates to participants in sport and performance settings.

KIN 527 - Sport Law

3 Credit(s)

This course is designed to provide the student with an understanding of the legal issues involved in supervision, management, and conduct in sport and recreation.

KIN 538 - Diversity and Equity in Sport

3 Credit(s)

This course explores aspects of diversity and equity in sport. This course has a two-fold purpose: first, it is designed to

provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask questions and think critically about diversity, equity, and inclusion in sport and interaction with society. This course will explore issues around diversity, equity, and inclusion in sport and society.

KIN 539 - Strength and Conditioning

3 Credit(s)

This course is designed to provide information relative to the basic foundation of coaching sport conditioning including muscle physiology, bioenergetics, training methodology, exercise technique, program design, and facility management. Students will be given the opportunity to develop a general strength training program for a specific sport and to demonstrate their knowledge relative to proper lifting techniques and training procedures.

Prerequisite(s):

KIN 509 Minimum Grade: C

KIN 556 - Strategic Management / Leadership

3 Credit(s)

This course will provide a detailed overview of strategic management and leadership with an emphasis on the management of sport organizations in the commercial, public and not for profit sectors. This course will enable learners to evaluate the relevance of distinctive strategic management tools and consider how these can be applied to support the development of effective sport and sport-related organizations. Students also will examine the principles of effective leadership and reflect on their personal leadership style, the skills and competencies that support the style as well as examining plans for personal and professional development.

Prerequisite(s):

BUS 500 Minimum Grade: C

KIN 584 - Exercise Science Practicum

3 Credit(s)

The practicum is designed to provide a structured practical experience for which the student is preparing. The assignment must be under the supervision of a qualified professional. The practicum is designed to provide the graduate student an actual field-based experience in a health, physical education, recreation, or athletic environment. The experience should give the student the opportunity to work with a working professional while enhancing and expanding the skills developed during their undergraduate and graduate programs. The practicum will consist of a minimum of 150 hours.

Prerequisite(s):

Complete a minimum of 18 graduate credit hours including KIN 503 and KIN 543 (minimum grade C).

Plus 6 KIN Elective Credits (advisor approved)

Master of Science in Kinesiology, Sport Administration Emphasis (online)

Go to: Department of Kinesiology

The online Masters of Science in Sport Administration at Adams State University is a 36-credit program that offers a wide range of courses and practical experiences in order to prepare students for employment in sport administration related careers. The Sport Administration Emphasis has two options: a Thesis option and a capstone option. The Thesis option will provide students the opportunity to further their research interest and prepare them for a doctoral program in sport administration. Students who do not want to pursue a Thesis may continue with the capstone option.

Required Core

KIN 503 - Introduction to Research

3 Credit(s)

This is an introductory research course for graduate students focusing on the area of physical education and human performance. Participants will develop an understanding of the purpose and importance of research in this specific area, overview basic elements of quantitative, qualitative, mixed methods, and action research methods, enhance skills to evaluate and critique problem statement for a specific research study, and gain an appreciation for conducting research.

KIN 585 - Practicum in Applied Sport Psychology

3 Credit(s)

The practicum is designed to provide a structured practical experience for which the student is preparing. The assignment must be under the supervision of a qualified professional. The practicum is designed to provide the graduate student an actual field based experience in a health, physical education, recreation, or athletic environment. The experience should give the student the opportunity to work with a working professional while enhancing and expanding the skills developed during their undergraduate and graduate programs. The practicum will consist of a minimum of 100 hours.

Prerequisite(s):

Completed a minimum of 18 graduate credit hours including KIN 503 Minimum Grade: C

Sport Administration Requirements

BUS 500 - Leadership Skills for Managers

3 Credit(s)

This course teaches practical skills required for effective management at all levels of an organization, and is designed to increase a learner's understanding of key concepts and procedural guidelines related to organizational management, human resource, and leadership. The purpose is to be equipped to deal effectively with managerial challenges dealing with people.

KIN 505 - Sports Marketing and Public Relations

3 Credit(s)

This course prepares students with the tools needed to develop effective marketing and public relations strategies for sports and athletic programs. Topics such as marketing, advertising, public relations strategies, consumer behavior, licensing, and sponsorship will be explored.

KIN 515 - Administration of Sport

3 Credit(s)

This course is designed to teach students the important principles, concepts, research, and theories of managing a sport organization. Students will develop the ability to apply the management principles to interscholastic, intercollegiate and professional and Olympic sports. Students will learn the fundamental principles such as: organizational development, marketing, human resources, strategic planning, sport culture, media relations, fundraising, event management, and leadership as it relates to sport.

Prerequisite(s):

BUS 500

BUS 520 - Managerial Accounting

3 Credit(s)

This course provides a review of financial reporting standards and statements and analysis of those financial statements. Managerial accounting principles will be explored as well as budgeting, cost allocation, accumulation, cost behavior, and relevant costs; revenues are approached from a managers' perspective. Prerequisite: undergraduate accounting course with a grade of C or higher.

KIN 525 - Facilities/Event Management

3 Credit(s)

This course introduces graduate students to the discipline of facility and event management as they relate to the sport, recreation, and leisure industries. Key topics will include planning, designing, managing, scheduling, maintaining, and supervising sport facilities. In addition, students will become familiar with the techniques and strategies needed to plan, promote, manage, and evaluate special sport and sport-related events.

KIN 527 - Sport Law

3 Credit(s)

This course is designed to provide the student with an understanding of the legal issues involved in supervision, management, and conduct in sport and recreation.

KIN 533 - Financing Sport

3 Credit(s)

This course applies financial and economic principles to various professional, collegiate, or high school level sport programs as well as exercise-related settings. The course will provide the student with a practical background regarding the principles of financial management, economic theory, and financial systems for the purpose of planning, administering, reporting, and evaluating the financial performance of a sport organization.

Prerequisite(s):

KIN 515 AND BUS 520

KIN 556 - Strategic Management / Leadership

3 Credit(s)

This course will provide a detailed overview of strategic management and leadership with an emphasis on the management of sport organizations in the commercial, public and not for profit sectors. This course will enable learners to evaluate the relevance of distinctive strategic management tools and consider how these can be applied to support the development of effective sport and sport-related organizations. Students also will examine the principles of effective leadership and reflect on their personal leadership style, the skills and competencies that support the style as well as examining plans for personal and professional development.

Prerequisite(s):

BUS 500 Minimum Grade: C

Capstone Option

KIN 538 - Diversity and Equity in Sport

3 Credit(s)

This course explores aspects of diversity and equity in sport. This course has a two-fold purpose: first, it is designed to provide a sound introduction to diversity and equity in sport; and second, it is designed to encourage students to ask questions and think critically about diversity, equity, and inclusion in sport and interaction with society. This course will explore issues around diversity, equity, and inclusion in sport and society.

KIN 596 - Capstone Project

3 Credit(s)

This course is designed to integrate coursework into a capstone experience. It is an applied research course requiring students to utilize the tools and information from all the students coursework into a timely, useful capstone project in cooperation with their professional needs. This course is designed to integrate coursework into a capstone experience. It is an applied research course requiring students to utilize the tools and information from all the students coursework into a timely, useful capstone project in cooperation with their professional needs.

Prerequisite(s):

KIN 503 Minimum Grade: C

AND

KIN 543 Minimum Grade: C

Thesis Option

KIN 591 - Thesis Proposal

3 Credit(s)

This course represents the first part of a two-part culminating experience for the graduate student in Kinesiology. It is intended that his course will provide a practical and thorough experience working through a professionally designed research project. Completion of at least 18 graduate KIN credits are also required prior to course registration.

Prerequisite(s):

KIN 503 Minimum Grade: C

AND

KIN 543 Minimum Grade: C

KIN 593 - Master's Thesis

6 Credit(s)

This course represents the culminating experience for the graduate student in the Master of Science in Exercise Science program. This course will provide a practical and thorough experience working through a professionally designed research project. It will include a written and oral presentation of the thesis proposal, as well as a written and oral defense of the completed Masters thesis. This course will be taken in the last year of the students program at Adams State University.

Prerequisite(s):

KIN 503 Minimum Grade: C

AND

KIN 543 Minimum Grade: C

Total Program Hours: 36

Minor in Business Administration

Go to: Business

Note: A minor in Business Administration is not allowed if a student also has a major in business.

Degree Requirements

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

Plus 6 Hours

from the following (may, but need not, come from the same subgroup):

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND/OR

BUS 307 - Managerial Cost Accounting I

3 Credit(s)

Principles and methods of recording and interpreting cost data. Major emphasis on developing accounting information for planning, control, and decision making.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

AND/OR

BUS 355 - Individual Income Taxation

4 Credit(s)

This course involves the study of federal income tax on individual and property transactions. Objectives of taxation are given major emphasis. The Internal Revenue Code is discussed in addition to textbook material in order to acquaint the student with the ultimate source of tax law. Income tax return problems and tax cases may be assigned to provide practical application of the tax law.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

AND/OR

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

AND/OR

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 320 - Bus Computer Applications II

3 Credit(s)

The focus of this course is to explore application software on a comprehensive level to gain expertise to support decision-making and manage information. Study includes intermediate Word and Excel applications; intermediate to advanced PowerPoint; intermediate Access, integration of Office applications, and an introduction to HTML and building web pages.

Prerequisite(s):

BUS 120 Minimum Grade: C- OR T

BUS 362 - Human Resource Management

3 Credit(s)

Analysis of techniques used to organize, motivate, and manage personnel in public or private organizations. Includes case studies and examines current literature and the current legal environment..

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

AND

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

AND

BUS 373 - Investment Analysis

3 Credit(s)

BUS 318 recommended. The course is a study of personal investment planning, traditional and alternative investment vehicles, investment media, investment strategy, and portfolio analysis. The student will become familiar with both money market and capital investment markets as well as strategies for assessing returns and risks of various security instruments.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

AND

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

Minor in Marketing

Go to: Business

Degree Requirements

Minimum of 15 credit hours from the following:

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 315 - Sales and Sales Management

3 Credit(s)

This course is designed to introduce students to management techniques as they relate specifically to the marketing and sales area. Topics covered include: the selling process, compensation systems, motivation and leadership, time and territory management, sales forecasting, quotas, and evaluating the sales force.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 335 - Consumer Behavior

3 Credit(s)

Study of consumer behavior as it relates to the marketing functions. Emphasis on the models of consumer behavior and their application to practical marketing problems.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 345 - Advertising

3 Credit(s)

Discusses the history, purposes, and regulations of the advertising industry. Topics covered include creative principles, media advantages and disadvantages, media planning, regulation of advertising, and coordination with other promotion activities.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 356 - Retailing

3 Credit(s)

Study of marketing and management problems faced in the operation of a retail business. Emphasis is given to techniques for solving problems in location, management, and merchandising, especially with the integration of Internet retailing (E-Tailing) as both a competitor and an extension of the storefront business.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 385 - Sports Marketing

3 Credit(s)

Illustrates the dynamic, progressive and influential nature of sports marketing. Explores the sport marketing concept as a consumer-driven, integrated, goal-oriented philosophy for a team, event, organization or athlete. Topics covered include: athletic endorsements, team sports, event sponsorships and alternative sports.

BUS 441 - International Marketing

3 Credit(s)

Analysis of opportunities, distinctive characteristics, and emerging trends in foreign markets, including exploration of alternative methods and strategies for entering foreign markets; organizational planning and control; impact of social, cultural, economic, and political differences; and problems of adapting American marketing concepts and methods. This is accomplished through real life planning and implementation of an international marketing plan designed to market a product or service in a foreign country or countries

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 448 - Interactive/Social Media Marketing

3 Credit(s)

This course focuses on relationship marketing, interactive marketing, integration of consumer data, Internet marketing (E-commerce), media advertising, catalogs, mailing lists, telemarketing, and the use of direct marketing techniques to replace or enhance the traditional marketing methods of retail and direct sales.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 449 - Marketing in the 21st Century

3 Credit(s)

This course provides the practical tools and strategies required to successfully leverage social networks, capitalize on their powerful word-of-mouth lift, and how to measure these interactive marketing efforts. These tools will be used on an actual social media marketing campaign for a business or non-profit entity. Current and future marketing tools will be discussed and evaluated.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T
AND

BUS 448 Minimum Grade: C- OR T

BUS 454 - Market Research & Information

3 Credit(s)

Study of the theory and methods used in marketing research to address marketing problems. May include the completion of a research project where students learn by performing a research project from problem formulation to writing a research report. Also prepares the students for evaluating research performed by others.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T
AND

BUS 318 Minimum Grade: C- OR T

BUS 460 - Marketing Management

3 Credit(s)

Twelve hours of marketing courses and senior status required. Capstone course in marketing. Study of the problems faced by marketing managers as they make decisions and develop policies.

Prerequisite(s):

BUS 454 Minimum Grade: C- OR T

HCA 305 - Health Care Marketing

3 Credit(s)

This course involves an analysis, evaluation, and implementation of marketing strategies within health care and managed-care environments. Designed to develop skills in segmenting customer and medical markets, brand products and services, enhance a communication strategy to the consumer, and develop pricing approaches. Methods and models of marketing fundamentals will be introduced.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

Plus 3 Credit Hours of Business or Economics Courses, 300-400 Level

Minor in Sociology

Go to: Sociology

A Minor in Sociology (18 hours excluding SOC 201) is available through consultation with any sociology faculty member

Pre-Nursing Certificate

The Certificate of Completion of Pre-Nursing Prerequisites will allow students to demonstrate that they have successfully completed 51 pre-nursing credit hours successfully with a C or better. Successfully completing prerequisites allows students to be candidates for nursing school selection.

Complete the following Supporting/General Education Courses for Nursing with a Minimum Grade of C

Complete a First-Year Seminar Course

FYS 101 - First Year Seminar

1 to 3 Credit(s)

First-year students launch into the Adams Experience through a First-Year Seminar (FYS) course. FYS will engage students by creating habits for success, learning to navigate college life, and build skills for success. Each FYS will focus on a unique topic that will be the theme of course discussions, experiences, and assignments. FYS will develop academic and social capital and support a successful transition into higher education, instill lifelong learning, and reinforce student persistence.

Complete all Courses

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 205 - Human Anatomy and Physiology I

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The integumentary, skeletal, muscular, and nervous systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Test - Minimum Score: 3 **OR** MATH 97 Minimum Grade: S or S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T and SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18 **OR** ENG 96 Minimum Grade: S or T

BIOL 206 - Human Anatomy and Physiology II

4 Credit(s)

A lecture/laboratory course that uses the body-system approach to study the structure and function of the human body. Recommended for pre-nursing and certain Human Performance and Physical Education Department and allied health programs. Topics include gross anatomy, histology, cell function, regulation of body activities, and pathological changes in disease. The digestive, respiratory, circulatory, urinary, endocrine, and reproductive systems are studied. Course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL 205 Minimum Grade: C- or T

OR

BIOL 210 Minimum Grade: C- or T

BIOL 215 - Microbiology for Health Sciences

4 Credit(s)

A lecture/laboratory course designed to fulfill requirements for pre-nursing and pre-pharmacy students as a practical introduction to microorganisms, especially bacteria and viruses, and their contribution to human health and disease. Laboratory exercises are designed to provide experience in handling microorganisms, bacterial identification, and other basic principles of microbiology. This course will not fulfill requirements for any of the biology degree tracks. Course includes 3 hours of lecture and 3 hours of laboratory per week.

Prerequisite(s):

BIOL-205 Minimum Grade: C- OR T

AND

CHEM-105 Minimum Grade: C- OR T

AND

CHEM-105L Minimum Grade: C- OR T

OR

CHEM-111 Minimum Grade: T OR C-

AND

CHEM-111L Minimum Grade: T OR C-

OR

BIOL-209 Minimum Grade: C- OR T

AND

BIOL-210 Minimum Grade: C- OR T

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T
OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

PSYC 233 - Lifespan Dev for Nurses

3 Credit(s)

This is a foundational course for nursing students in human growth and development. The goal of this course is to examine the interaction of heredity and environment on biological, cognitive, and social development from conception to death.

Prerequisite(s):

PSYC 101 Minimum Grade: C- OR T

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

Complete 1 of the Following Statistics Courses

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T
OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

PSYC 211 - Introduction to Statistics Lecture/Lab

4 Credit(s)

In this course, students will develop a working appreciation of statistical concepts and applications as employed in the behavioral sciences. The course presents descriptive and inferential statistics and their applications. The laboratory component of this course gives students an opportunity to develop skills in using statistical software.

Prerequisite(s):

PSYC 101 Minimum Grade: C- or T
AND

MATH 97 Minimum Grade: S-A or S-B or S-C or T

OR

MATH 99 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 121 Minimum Grade: C- or T

OR

MATH 140 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Complete 1 of the following Arts and Humanities Courses (GT-AH1, GT-AH2, or GT-AH3)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T
AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Complete 1 of the following History Courses (GT-HI1)

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Complete 1 of the following Mathematics Courses (GT-MA1)

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

Public Administration Certificate

Go to: Business

Required Courses

- Any 4 MPA 500 level courses

Public Sector Leadership Certificate

Go to: Business

The certificate will provide an opportunity for graduate study in Public Administration without committing to earning a full master's degree. This should be especially appealing to current public managers who already have a graduate degree in another field.

Completion of the graduate certificate will also allow potential students to test out graduate study without entering a full degree program.

Required Courses

MPA 500 - Introduction to Public Administration

3 Credit(s)

An introductory survey to the field of public administration, especially historical, political, and organizational approaches to ethical and reflective professional practice.

MPA 550 - Public Administration Capstone

3 Credit(s)

The Capstone Course offers each student the opportunity to demonstrate mastery of the theory and practice of public administration by applying the knowledge and skills gained in the MPA and MBA-PA programs. This involves completing a portfolio project reflecting the cumulative knowledge gained from these experiences.

Prerequisite(s):

Admission to MPA or MBA program

Plus 6 credits of elective coursework from MPA offerings

School Counseling Certificate

The School Counseling Certificate will provide individuals who hold a Master's degree in Counseling from a CACREP-accredited institution a pathway to become a licensed school counselor in the state of Colorado. These certificate students will complete four classes (12 credits) in our existing school counseling degree plan. They will also be required to complete two semesters of School Counseling Internship (6 credits) in elementary, middle, and high school for a total of 600 hours. This certificate program will be run in a cohort model, and it will take students three semesters to complete the coursework and requirements.

Required Courses

COUN 534 - Counseling Modalities in a School Setting

3 Credit(s)

This course focuses on applying the skills interventions and modalities learned in the counseling courses to the school setting. Emphasis will be on learning to use evidence-based practices to help K-12 students function more effectively in the academic, personal/social, and career domains.

COUN 540 - Foundations of School Counseling

3 Credit(s)

This course provides an introduction to professional school counseling, including historical perspectives, theory, practice, employment settings, credentialing, legislation, research, and ethical considerations.

COUN 541 - Comprehensive School Counseling

3 Credit(s)

This course offers an in-depth exploration of current professional school counseling. Students will understand the skills needed in counseling, consulting, advocacy, and collaboration to promote academic success for all students. The course offers a comprehensive approach to a school counseling program. Students will learn the mechanism with which school counselors and school counseling teams design, coordinate, implement, manage and evaluate their programs for student success.

Prerequisite(s):

COUN 540 Minimum Grade: C

COUN 551 - Professional School Counseling Issues

3 Credit(s)

This course will focus on the day-to-day life of the school counselor and current trends in school counseling. Specifically, students will gain an understanding of the counselor as educational leader, working with parents and the community, diversity in schools, serving specific populations, crises/threat assessment, technology, career advisement, and ethical and legal issues.

COUN 586 - Internship I School Counseling

3 Credit(s)

Students will utilize knowledge and skills gained in coursework and the practicum experience in a supervised counseling setting. Students will receive supervision, increase knowledge of the profession, increase skill base, and continue the process of self-exploration and self-awareness.

Prerequisite(s):

COUN 537 Minimum Grade: B-

COUN 596 - Internship II- School Counseling

3 Credit(s)

A continuation of Internship I, students will complete their supervised on-site experience, expand their acquired skills, and receive further supervision.

Superintendent Licensure Certificate (9 credits)

Required Courses

LEAD 510 - The Superintendency

3 Credit(s)

This course provides a survey of the Superintendency as an executive position responsible for the organizational leadership and management of school districts in the United States. Emphasis will be placed on unpacking professional standards from the American Association of School Administrators (AASA) as well as Colorado-based standards for licensure as a school administrator/superintendent.

Candidates will be expected to critically examine each of Standards in terms of how they are implemented through policies and practices within their own districts while making recommendations for improving such policies based on current research and best practice

LEAD 511 - Superintendents as Transformational Leaders

3 Credit(s)

This course supports aspiring superintendents in developing the knowledge and skills necessary to be responsive, transformational leaders in diverse school contexts. Throughout the course, candidates will engage in case-study analysis and critical discussion to work through potential dilemmas and challenges while applying research and best practice in leadership to sustain a clear focus on student learning through well-managed systems. The content of this course aligns to Colorado Department of Education and AASA standards.

LEAD 512 - Superintendent Practicum

3 Credit(s)

During this 300-hour practicum, candidates will apply knowledge and skills gained throughout the program to demonstrate competency in each of the required licensure standards for Administrator/Superintendent in Colorado.

Candidates will document progress on each standard by logging their experiences and writing monthly reflection papers in which they explicitly address how they are progressing on demonstrating licensure standards. This course also includes the final/capstone project- a candidate driven project developed in coordination with the candidate's mentor and host site to address a local need.

Teaching of History at the College Level Certificate

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

This certificate will appeal to high school educators seeking 18 credit hours to teach college-level credit bearing courses at the secondary level.

Core Courses (6 credits)

HIST 500 - Historiography and Historical Methods

3 Credit(s)

A historiographical seminar in which students learn and demonstrate a mastery of a variety of methods historians use to understand the past.

HIST 510 - Teaching History

3 Credit(s)

This course explores best practices and trends in the teaching of history at the secondary and collegiate levels.

Choose 12 Elective Credits

HIST 501 - State History

3 Credit(s)

A graduate-level survey of the history of a particular state, with emphasis on how meta and national phenomenon impacted a given state, as well as events and phenomena unique to the state.

HIST 505 - American West

3 Credit(s)

This course is a survey of the American West with an emphasis on interpretation by historians. Admission to the Master of Arts program is required.

HIST 507 - Latino History

3 Credit(s)

This course will give special attention to the loss of land in the late nineteenth century, community formation during the early twentieth century, and the Chicano Movement of the late 1960's and early 1970's. At a deeper level, this course explores both the strengths and weaknesses in the relevant historiography and fundamental questions about the practice of history and the forces that form and serve as custodians of memory.

HIST 520 - Topics in World History

3 Credit(s)

This course will involve intensive reading, analysis, and discussion of selected topics/controversies in world history.

HIST 521 - Women in US History

3 Credit(s)

This course examines the role of women in American history with special emphasis on how the story of women is told by historians over time. It examines not only the lives of many famous white women, but also the experiences of women from various ethnicities and economic backgrounds. In addressing how Americans construct their understanding of women's lives in the U.S., this course will also reassess how focusing on women's lives might alter one's understanding of the broader patterns and interpretations of American history.

HIST 522 - Gilded Age and Progressive Era

3 Credit(s)

This course examines the United States from the end of Reconstruction through World War I. The Gilded Age covers the period of intense economic expansion after the Civil War, and examines the expansion of big business, the growth of the labor movement, and the crisis of the 1890's. The second half of the course studies the period of intense reform known as the Progressive Era, and concludes with U.S. participation in the First World War. Topics will include American overseas expansion, immigration, the suffrage movement, and the rise of governmental economic regulation.

HIST 526 - U.S. in the Era of World Wars

3 Credit(s)

A study of the United States History during World War I and World War II, or focused on either War, with special attention devoted to diplomatic, social, and political developments of the specific period under study with emphasis on the impact of immigration, urbanization, technology, and America's increasing involvement in world affairs.

HIST 527 - The Sixties Era

3 Credit(s)

The events of the 1960's continue to polarize the country today. This course is an in-depth examination of the transformation of the United States between World War II and the 1980's with a focus on the years 1964-1973, during which most of the events of what people understand as The Sixties took place. The major theme will be the transformation of the American political system, the social upheavals and cultural rebellion of the U.S. in the 1960's, the Vietnam War, and the Reagan Era. Of particular concern is how the era and events have been interpreted by scholars over time. This course is part of the core for the M. A. degree program in United States History. This course is designed for delivery through Blackboard and Blackboard Collaborate. It can also be adapted for a hybrid format, or a correspondence format.

HIST 540 - U.S. Presidency

3 Credit(s)

A study of the United States Presidency from 1789 to the present., with special attention devoted to the changing scope and function of the office in the changing context of broader American History. Other topics of particular interest are

the key figures who have altered the institution and the role of crises in changing the scope and functioning of the office. The course with separate subtitles can be repeated no more than 3 times.

HIST 546 - Borderlands

3 Credit(s)

This course explores borderlands as a site of historical scholarship with special emphasis on the southwestern United States and the United States-Mexico border.

HIST 550 - US Sports History

3 Credit(s)

A study of the history of sports and leisure in the United States Presidency from colonial times to the present, with special attention devoted to the changing social context in which sporting activities have taken place. Other topics of particular interest are the roles of race and gender in shaping the world of sport, and the roles of marketing, professional organizations, and media such as television in examining how sport has become part of the fabric of American life. This course views sport both as reflective of broader trends in American society but also as a catalyst of change.

HIST 551 - Atlantic History

3 Credit(s)

This course explores the Atlantic world as a field of historical scholarship with a special focus on European colonization of the Americas, African slavery, and the Age of Revolutions.

HIST 563 - Civil War and Reconstruction

3 Credit(s)

A graduate-level study of the antebellum South, sectional discord, armed conflict, and reconstruction of the Union.

HIST 568 - U.S.-Latin American Relations

3 Credit(s)

This course will examine U.S. - Latin Relations from the Monroe doctrine to the present with a more intensive and analytical focus on cold-war relations and the shift to post-cold-war dynamics.

HIST 579 - Special Topics

1 to 6 Credit(s)

Offered periodically to meet student special interests in the field.

HIST 590 - History Practicum

3 Credit(s)

A graduate-level practicum in the development and of United States History curriculum (education and public history).

HIST 592 - Workshop

0.5 to 6 Credit(s)

Short courses offered on an intermittent basis to meet the needs of special constituents.

HIST 599 - Individual Studies

1 to 6 Credit(s)

Provides opportunity for individual research/study into problems of special interest in the field. By faculty permission and approval of the Department Head.

Associate of Arts

As part of the Graduation Requirements for Undergraduates, Complete:

General Education Requirements (31 Credits Total)

Area I. Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T
OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II. Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature

of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III. Mathematics (3 credits)

MATH 104 - Finite Mathematics GT-MA1

3 Credit(s)

Topics covered include functions and their graphs, matrices, linear programming, probability, and descriptive statistics. Applications are presented from the areas of biology, business, behavioral sciences, economics, and the social sciences.

Prerequisite(s):

MATH 97 Minimum Grade: S-C or T
OR

MATH 99 Minimum Grade: S-C or T

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

ACT Math - Minimum Score: 19

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T
OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T

OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the

definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T

OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Area IV. Social and Behavioral Sciences/History (9 credits)

- at least one course must be a GT-SS*
- At least one course must be a GT-HI1 course
- the remaining course may come from either category
- Only one ECON course may be used towards the requirements in this General Education area

GT-SS* Courses

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production

possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

GT-HI1 Courses

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V. Physical and Natural Sciences (7 Credits)

One credit must be a lab:

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C- or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- **OR** BIOL-209 Minimum Grade: T **OR** BIOL-209 Minimum Grade: C- **AND** (CHEM-131 Minimum Grade: C- **OR** CHEM-131 Minimum Grade: T) **OR** (CHEM-111 Minimum Grade: C- **OR** CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

CHEM 103 - Introduction to Forensic Chemistry GT-SC1

4 Credit(s)

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

CHEM 103L - Introduction to Forensic Chemistry Lab GT-SC1

0 Credit(s)

Required companion laboratory to CHEM 103.

Co-requisite(s): CHEM 103

CHEM 104 - Chemistry in Context GT-SC2

3 Credit(s)

This course is designed to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and in significant issues facing science, technology, and society.

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T
OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2

3 Credit(s)

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-

OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1**1 Credit(s)**

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1**4 Credit(s)**

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T

AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1**1 Credit(s)**

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T

AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

29 Elective Credits

Associate of Arts, Social Studies Emphasis

Go to: HAPPS (History, Anthropology, Philosophy & Political Science)

As Part of the Graduation Requirements for Undergraduates, Complete:

General Education Requirements (31 Credits Total)

Area I. Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T
OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II. Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T
AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III. Mathematics (3 credits)

MATH 104 - Finite Mathematics GT-MA1

3 Credit(s)

Topics covered include functions and their graphs, matrices, linear programming, probability, and descriptive statistics. Applications are presented from the areas of biology, business, behavioral sciences, economics, and the social sciences.

Prerequisite(s):

MATH 97 Minimum Grade: S-C or T

OR

MATH 99 Minimum Grade: S-C or T

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

ACT Math - Minimum Score: 19

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

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OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T
OR

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SAT Math - Minimum Score: 460

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MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Area IV. Social and Behavioral Sciences/History (9 credits)

- at least one course must be a GT-SS*
- At least one course must be a GT-HII course
- the remaining course may come from either category
- Only one ECON course may be used towards the requirements in this General Education area

GT-SS* Courses

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

GT-HI1 Courses

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V. Physical and Natural Sciences (7 Credits)

One credit must be a lab:

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C-

or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score: 18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- OR BIOL-209 Minimum Grade: T OR BIOL-209 Minimum Grade: C- AND (CHEM-131 Minimum Grade: C- OR CHEM-131 Minimum Grade: T) OR (CHEM-111 Minimum Grade: C- OR CHEM-111 Minimum Grade: C- OR CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

CHEM 103 - Introduction to Forensic Chemistry GT-SC1

4 Credit(s)

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

CHEM 103L - Introduction to Forensic Chemistry Lab GT-SC1

0 Credit(s)

Required companion laboratory to CHEM 103.

Co-requisite(s): CHEM 103

CHEM 104 - Chemistry in Context GT-SC2

3 Credit(s)

This course is designed to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and in significant issues facing science, technology, and society.

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2

3 Credit(s)

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-

OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for

students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

Specific Courses Required for This Degree

- History - 9 Credits (in addition to those taken for General Education Area II):

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation

in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Government (3 Credits)

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ANTH 205 - Physical Anthropology

3 Credit(s)

The course will examine physical anthropology as a sub discipline of anthropology. The goal is to understand how the physical realities of being human affects the nature of culture. The central theme will be the evolution of humans from the earliest hominid forms to modern Homo sapiens. The course will focus on the mechanisms of evolution, an understanding of primate behavior in general, and the fossil evidence for hominid development.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

Philosophy (6 Credits)

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 202 - Ethics

3 Credit(s)

An examination of criteria governing ethical responses in typical situations as presented by representative thinkers. The application of principles in the development of reasonable standards of conduct and in the formulation of codes of ethics.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

Elective Courses

Students may, in consultation with the department chair of HAPSS, select enrichment courses with an HGP/HIST/POLS/PHIL/ANTH prefix, another course at the 100- to 200-level approved by the department chair, or any course from the menu above not taken to fulfill content area requirements.

Total completion of a minimum of 60 credits for this degree

Associate of Science

As Part of the Graduation Requirements for Undergraduates, Complete:

General Education Requirements (31 Credits Total)

Area I. Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T

OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II. Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III. Mathematics (3 credits)

MATH 104 - Finite Mathematics GT-MA1

3 Credit(s)

Topics covered include functions and their graphs, matrices, linear programming, probability, and descriptive statistics. Applications are presented from the areas of biology, business, behavioral sciences, economics, and the social sciences.

Prerequisite(s):

MATH 97 Minimum Grade: S-C or T
OR

MATH 99 Minimum Grade: S-C or T

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

ACT Math - Minimum Score: 19

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T
OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Area IV. Social and Behavioral Sciences/History (9 credits)

- at least one course must be a GT-SS*
- At least one course must be a GT-HII course
- the remaining course may come from either category
- Only one ECON course may be used towards the requirements in this General Education area

GT-SS* Courses

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

GT-HI1 Courses

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V. Physical and Natural Sciences (7 Credits)

One credit must be a lab:

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430
AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1
OR ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score:
18

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- OR BIOL-209 Minimum Grade: T OR BIOL-209 Minimum Grade: C- AND (CHEM-131 Minimum Grade: C- OR CHEM-131 Minimum Grade: T) OR (CHEM-111 Minimum Grade: C- OR CHEM-111 Minimum Grade: C- OR CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

CHEM 103 - Introduction to Forensic Chemistry GT-SC1

4 Credit(s)

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

CHEM 103L - Introduction to Forensic Chemistry Lab GT-SC1

0 Credit(s)

Required companion laboratory to CHEM 103.

Co-requisite(s): CHEM 103

CHEM 104 - Chemistry in Context GT-SC2

3 Credit(s)

This course is designed to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and in significant issues facing science, technology, and society.

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in

biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2

3 Credit(s)

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

18 Elective Credits from Business or the Sciences

11 Elective Credits

Associate of Science, General Business Emphasis

Go to: Business

As Part of the Graduation Requirements for Undergraduates, Complete:

General Education Requirements (31 Credits Total)

Area I. Communications (6 credits)

ENG 101 - Communication Arts I GT-C01

3 Credit(s)

This course is designed to provide students with the reading, writing and critical thinking skills necessary to produce effective college-level expository writing. Students entering Adams State who do not have English grades and/or test scores, or whose English grade point average is less than 2.5, or who score less than 18 on the ACT English sub-score, or who score less than 470 on the SAT Evidence-Based Reading & Writing are required to take the English Placement Exam (Essay Placement Exam). Students who do not agree with their placement based on their high school performance (e.g. grade point average) have the option of taking the Essay Placement Exam. Students who do not pass the Essay Placement Exam are placed in ENG-101 and the ENG 101L co-requisite lab class. Students who decline to take the Essay Placement Exam but fall below the threshold of ENG-101 admittance will automatically be placed in the ENG 101L co-requisite lab.

Prerequisite(s):

ACT English - Minimum Score: 18

OR

SAT Reading/Verbal - Minimum Score: 430

OR

SAT Evidence Based Reading/Writing Score - Minimum Score: 470

OR

Essay Placement Exam/Test - Minimum Score: 1

Co-requisite(s): ENG 101L

ENG 102 - Communication Arts II GT-C02

3 Credit(s)

The emphasis in this course is upon source-based writing designed to develop skills in critical reading, thinking, and writing. A series of written assignments, including a fully documented paper and oral presentation, are required.

Prerequisite(s):

ENG 101 Minimum Grade: D OR T

OR

ACT English - Minimum Score: 29

OR

SAT Reading/Verbal - Minimum Score: 660

Area II. Arts and Humanities (6 credits)

AR 101 - Art and Creativity GT-AH1

3 Credit(s)

Art and Creativity will introduce basic concepts in art through lectures and hands-on art-making classes. Lectures and readings will cover the role and function of visual art through history and in various cultures. Hands-on activities will develop creative thinking skills and teamwork. This course is designed for non-art majors. All hands-on activities and assignments are designed so that people with no prior art making experience or skills can enjoy and successfully complete them.

AR 103 - Art Appreciation GT-AH1

3 Credit(s)

Satisfies part of the humanities requirement. An introduction to art appreciation that provides a foundation in the basic concepts, materials, and processes of the visual arts, as well as a brief history of art. This course has a course specific fee to cover the costs of some materials.

COMM 255 - Fundamentals of Media Communication GT-AH2

3 Credit(s)

Students will examine how media form and are formed by culture and society. They will develop a sophisticated understanding of media by exploring the links between media production, media content, and a rapidly changing society. Media surveyed will include film, television, and Internet.

Prerequisite(s):

ENG 102 Minimum Grade: C- OR T

ENG 203 - Major Themes in Literature GT-AH2

3 to 6 Credit(s)

This course is designed to expose students to a variety of literature and to develop critical thinking, reading, and writing skills. ENG-203 is a prerequisite to all higher numbered English courses.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

AND

ENG 102 Minimum Grade: C- OR T

MUS 100 - Introduction to Music Literature GT-AH1

3 Credit(s)

An introductory course in music literature which includes a survey of Western art music from the Middle Ages to the

present and a survey of non-Western music. A brief study of musical elements as well as a study of the development of musical styles, major composers and compositions is included. Listening, lectures, readings and experiencing performances are vital components of this course.

PHIL 201 - Introduction to Philosophy GT-AH3

3 Credit(s)

A survey of philosophical inquiries, theories, and major problems arising from man's attempt to understand the significance of the world in which he lives and works.

PHIL 205 - Logic and Critical Thinking

3 Credit(s)

This course will develop student competencies to reason correctly through the identification, evaluation, and construction of arguments. Among the subjects covered are uses of language, types of arguments, informal fallacies, elementary deductive arguments, symbolic logic, and various forms of reasoning including moral, legal, scientific, and exegetical. In addition to improving reasoning skills, students will critically evaluate various disciplines, arguments, and forms of reasoning through the identification and evaluation of underlying assumptions or commitments. The knowledge and skills developed in this course will lead to success and competency in other disciplines and give students the tools and inspiration to become lifelong learners and effective citizens.

THTR 180 - Introduction to Theatre GT-AH1

3 Credit(s)

This course is a study of theatre as an art with an emphasis upon its cultural and social influence in society. It examines the simultaneous evolution of several facets of theatre, including acting, directing, play writing, the physical stage, performance conditions, and dramatic literature. The course focuses on demonstrating the collaborative, eclectic nature of theatre, and on providing students with a sophisticated understanding of how live performances have evolved to meet the demands of each society through the ages.

Area III. Mathematics (3 credits)

MATH 104 - Finite Mathematics GT-MA1

3 Credit(s)

Topics covered include functions and their graphs, matrices, linear programming, probability, and descriptive statistics. Applications are presented from the areas of biology, business, behavioral sciences, economics, and the social sciences.

Prerequisite(s):

MATH 97 Minimum Grade: S-C or T

OR

MATH 99 Minimum Grade: S-C or T

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

ACT Math - Minimum Score: 19

MATH 106 - College Algebra GT-MA1

3 Credit(s)

An introduction to the basic techniques of algebra. Topics include functions (linear, quadratic, polynomial, root, rational, exponential, and logarithmic), systems of equations, matrix algebra, inequalities, and complex numbers. Optional topics include partial fractions, synthetic division, mathematical induction, sequences and series, and counting principles.

Prerequisite(s):

MATH 99 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 22

OR

SAT Math - Minimum Score: 560

OR

SAT Math Section Score - Minimum Score: 580

MATH 107 - Trig/ Analytic Geometry GT-MA1

3 Credit(s)

An introduction to the tools and techniques of trigonometry. Topics include angles and their measures, the six trigonometric functions and their properties, inverse trigonometric functions, graphs, identities including the Law of Sines and the Law Cosines, trigonometric equations, and solving triangles. Optional topics include complex numbers, De Moivre's Theorem, polar coordinates, and analytic geometry.

Prerequisite(s):

MATH 106 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 25

OR

SAT Math - Minimum Score: 600

MATH 110 - Introduction to Statistics, GT-MA1

3 Credit(s)

Topics covered include sampling methods, types of random variables and parameters, descriptive statistics (such as 5-number summary, mean, standard deviation), data presentations (such as bar charts, histograms), introductory probability, standard normal and t distributions, z scores, hypothesis testing, confidence intervals, types of errors, and regression and correlation. Optional topics include chi-squared and probability distributions (such as binomial and geometric). Class periods will often be scheduled in a computer lab to exhibit calculations using technology. This can include using spreadsheets and statistics software packages. Students will be expected to write their conclusions, describe what the statistics tell us, and identify limitations and/ or problems with their conclusions.

Prerequisite(s):

MATH 95 Minimum Grade: S or S-C or T and ENG 102 Minimum Grade: C or T
OR

MATH 97 Minimum Grade: S or S-C or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

MATH 120 - Calculus I GT-MA1

5 Credit(s)

An introduction to the calculus of functions of one real variable. Topics include limits, continuity, derivatives, graphing techniques, optimization, related rates, Newton's method, indeterminate forms and L'Hopital's rule, antiderivatives, the definite integral, and the Fundamental Theorem of Calculus.

Prerequisite(s):

MATH 107 Minimum Grade: C or T
OR

ACT Math - Minimum Score: 26

OR

SAT Math - Minimum Score: 600

OR

SAT Math Section Score - Minimum Score: 620

MATH 121 - Calculus II GT-MA1

5 Credit(s)

A continuation of the calculus of functions of one real variable. Topics include integration, application of the definite

integral, techniques of integration, improper integrals, arc length, surface area, volume, infinite series, and Taylor series.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Area IV. Social and Behavioral Sciences/History (9 credits)

- at least one course must be a GT-SS*
- At least one course must be a GT-HII course
- the remaining course may come from either category
- Only one ECON course may be used towards the requirements in this General Education area

GT-SS* Courses

ANTH 201 - Cultural Anthropology GT-SS3

3 Credit(s)

The course will examine the field of anthropology. The concept of culture will be introduced as an overarching approach to understanding human behavior that draws on the other social and behavioral sciences. Introductory discussions of physical (biological) anthropology, archeology, and anthropological linguistics will precede a more in-depth examination of cultural anthropology. Students will examine the basic methods, theories, and concepts of cultural anthropology, developing a cross-cultural perspective on human diversity.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

POLS 291 - American Government GT-SS1

3 Credit(s)

This course examines American government and politics, including the Constitution, Congress, presidency, courts, public opinion, voting, socialization, civil rights and liberties, and public policy.

PSYC 101 - Introduction to Psychology GT-SS3

3 Credit(s)

This course provides students with a survey of research and theory in the science of psychology. An important goal of the course is to broaden the student's understanding of self and others. Course topics include critical thinking skills, research methods, neuroscience, sensation and perception, life-span development, learning, memory, personality, psychological disorders, and social psychology.

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

GT-HI1 Courses

HGP 110 - World History and Culture I GT-HI1

3 Credit(s)

Tour the ancient world as we survey the development of civilization from the dawn of history to 1500 CE. This course examines the major cultures of China, Japan, India, Egypt, Greece, Rome, Medieval Europe, the Byzantine Empire, Africa, the Islamic Empire, and the Mayan, Aztec, Incan, and Native American worlds. Students will gain a foundation in the world's major religious traditions such as Buddhism, Christianity, Hinduism, Islam, and Judaism, as well as explore philosophical and political traditions such as Confucianism and Greek thought.

HGP 111 - World History and Culture II GT-HI1

3 Credit(s)

A study of Western and Eastern civilizations from 1500 to the present, with emphasis on cultural and institutional developments. See the emergence of the modern world from the European Renaissance to today. Students will gain an understanding of the origins of modern Europe through the Renaissance, European Reformations, and overseas exploration and colonization. They will learn about the U.S., French, and Spanish American Revolutions, the changes brought by the Industrial Revolution, and the catastrophes of World War I and World War II. They will also gain an understanding of European imperialism and its impact on Africa, India, China, and the Middle East, and the resulting independence movements that ended imperialism. Finally, students will examine conflict in the modern era from the Cold War through the changes brought on by September 11.

HIST 202 - American History to 1865 GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

HIST 203 - American History 1865-Present GT-HI1

3 Credit(s)

A chronological examination of American problems and progress.

Area V. Physical and Natural Sciences (7 Credits)

One credit must be a lab:

BIOL 101 - Introductory Biology GT-SC1

4 Credit(s)

Introductory Biology is a one-semester lecture/laboratory course designed to acquaint the non-major with a broad overview of the fundamental principles of biology. Topics considered will include the scientific method of inquiry, evolution, the biology of cells, principles of inheritance, the biology of organisms including a survey of major groups, and ecology with emphasis on the adaptations of organisms to living and non-living environmental factors. The course includes 3 hours of lecture and 2 hours of laboratory per week.

Co-requisite(s): BIOL 101L

BIOL 125 - Nutrition GT-SC2

3 Credit(s)

A study of the fundamentals of human nutrition with emphasis on the impact of diet on health. Topics include the scientific method, evaluating nutritional information, the anatomy and physiology of the digestive system, the chemical nature and physiological roles of nutrient groups, principles of weight control, nutritional requirements at different life stages, eating disorders, food safety, and the role of nutrition in the prevention and treatment of disease. This course includes 3 hours of lecture per week.

BIOL 209 - General Biology I GT-SC1

5 Credit(s)

The first of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology I content focuses on principles of evolution and the diversity of life. The General Biology sequence is the foundation for biology majors and is prerequisite to all 300- and 400-level courses in biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19 **OR** SAT Math - Minimum Score: 460 **OR** SAT Math Section Score - Minimum Score: 500 **OR** Math Placement Tier (MPLC): 3 or higher **OR** MATH 97 Minimum Grade: S-C or T **OR** MATH 99 Minimum Grade: S or T **OR** MATH 104 Minimum Grade: C- or T **OR** MATH 106 Minimum Grade: C- or T **OR** MATH 107 Minimum Grade: C- or T **OR** MATH 110 Minimum Grade: C- or T **OR** MATH 120 Minimum Grade: C- or T **AND** SAT Reading/Verbal - Minimum Score: 430

AND

SAT Evidence Based Reading/Writing Score - Minimum Score: 470 **OR** Essay Placement Exam - Minimum Score: 1 **OR** ENG 96 Minimum Grade: S-C or T **OR** ENG 101 Minimum Grade: C-or T **OR** ACT Reading - Minimum Score:

BIOL 210 - General Biology II GT-SC1

5 Credit(s)

The second of a two-semester lecture/laboratory sequence introducing the fundamental principles of biology. General Biology II focuses on cellular, Mendelian, and molecular processes. The General Biology sequence is the foundation for Biology majors and is prerequisite to all 300 and 400 level courses in Biology. Course includes 4 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

BIOL-209 Minimum Grade: C- OR BIOL-209 Minimum Grade: T OR BIOL-209 Minimum Grade: C- AND (CHEM-131 Minimum Grade: C- OR CHEM-131 Minimum Grade: T) OR (CHEM-111 Minimum Grade: C- OR CHEM-111 Minimum Grade: C- OR CHEM-111 Minimum Grade: T)

Co-requisite(s): BIOL-210L

CHEM 103 - Introduction to Forensic Chemistry GT-SC1

4 Credit(s)

This course serves as an introduction to chemistry using a forensics perspective and is specifically designed for the non-science major. The course is three credits of lecture and has an accompanying one credit of laboratory that count towards general education credit. Does not count towards a major or minor in chemistry.

CHEM 103L - Introduction to Forensic Chemistry Lab GT-SC1

0 Credit(s)

Required companion laboratory to CHEM 103.

Co-requisite(s): CHEM 103

CHEM 104 - Chemistry in Context GT-SC2

3 Credit(s)

This course is designed to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and in significant issues facing science, technology, and society.

CHEM 111 - Introductory Chemistry GT-SC1

4 Credit(s)

A study of the fundamental concepts of chemistry. The course is satisfactory for nursing students, for biology majors who take only one year of chemistry, for HPPE advanced track, and for students preparing to take CHEM 131. It will not satisfy the requirements for a chemistry major or minor. It is suitable for the pre-professional programs such as pre-med, pre-dental, pre-vet or medical technology.

Prerequisite(s):

ACT Math - Minimum Score: 19
OR

SAT Math - Minimum Score: 460

OR

MATH 97 Minimum Grade: S-A or S-B

OR

MATH 97 Minimum Grade: S-C or S

OR

MATH 99 Minimum Grade: S or S-A

OR

MATH 99 Minimum Grade: S-B or S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 111L

CHEM 111L - Introductory Chemistry Lab GT-SC1

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-111.

Co-requisite(s): CHEM-111

CHEM 131 - General Chemistry GT-SC1

4 Credit(s)

A study of the principles and applications of chemistry suitable for science majors who plan additional course work in biology, chemistry, geology, physics, or mathematics. Organic chemistry is briefly included. The laboratory work consists of learning basic techniques and studying chemical and physical principles discussed in the lecture. This course is designed for students who have had high school chemistry, although is not a prerequisite.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 99 Minimum Grade: S or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

Co-requisite(s): CHEM 131L

CHEM 131L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-131.

Co-requisite(s): CHEM-131

CHEM 132 - General Chemistry GT-SC1

4 Credit(s)

A continuation of CHEM 131. This course is designed for students who have had high school chemistry, although it is not a prerequisite.

Prerequisite(s):

CHEM 131 Minimum Grade: C- OR T

Co-requisite(s): CHEM 132L

CHEM 132L - General Chemistry Lab

1 Credit(s)

Required companion laboratory to be taken concurrently with CHEM-132.

Co-requisite(s): CHEM-132

ENV 101 - Introduction to Environmental Science GT-SC1

4 Credit(s)

An introductory level study of ecosystems, evolution population growth dynamics and problems, atmospheric and geologic processes, nonrenewable resource use, soil and land use, nutrient cycling, energy use, pollution and conservation strategies.

Prerequisite(s):

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S-C or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

OR

MATH 150 Minimum Grade: C- or T

OR

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

Co-requisite(s):

GSCI 109 - Dynamic Earth GT-SC1

4 Credit(s)

This course is an introduction to the interwoven geoscience fields including the relationships among the four spheres of the Earth (i.e., atmosphere, biosphere, hydrosphere, and lithosphere). This course emphasizes the understanding of geoscience processes from the Earth's core to the fringes of outer space. A major focus is the relationship between humans and the environment, including global climate and environmental change. Laboratory work includes identification and classification of minerals and rocks, climate and weather analysis, surface and groundwater simulations, and topographic and geologic map exercises. This course includes 3 hours of lecture and 2 hours of laboratory per week.

Prerequisite(s):

ACT Math - Minimum Score: 19

OR

SAT Math - Minimum Score: 460

OR

SAT Math Section Score - Minimum Score: 500

OR

MATH 97 Minimum Grade: S or T

OR

MATH 99 Minimum Grade: S or T

OR

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 107 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

PHYS 110 - Astronomy: Stars and Galaxies GT-SC2

3 Credit(s)

An introductory course in astronomy with primary focus placed on study of the universe beyond our solar system including stars, galaxies, black holes, and cosmology. Students may need to attend night-sky viewing sessions as a requirement of the course.

PHYS 225 - College Physics I GT-SC1

5 Credit(s)

The first course of a two-semester lecture/laboratory sequence introducing the fundamental principles of physics. In the first semester, students will be introduced to the areas of kinematics, dynamics, energy, momentum, heat, and sound. Conceptual understanding as well as problem solving techniques will be emphasized in the lecture. Laboratory sections meet for two hours each week and the exercises performed in the laboratory coincide closely with the topics presented in the lecture. Instructor permission must be obtained to register for this course.

Prerequisite(s):

MATH 107 Minimum Grade: C-
OR

MATH 107 Minimum Grade: T

OR

Math Placement Test - Minimum Score: 6

OR

ACT Math - Minimum Score: 26

PHYS 230 - General Physics I GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of mechanics, sound, heat. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 231) must be taken concurrently.

Prerequisite(s):

MATH 120 Minimum Grade: C- OR T

Co-requisite(s): PHYS 231

PHYS 231 - General Physics I Lab GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 230. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for theoretical behavior and to account for the errors which give them the observed behavior.

Co-requisite(s): PHYS 230

PHYS 232 - Gen Physics II (Cal) GT-SC1

4 Credit(s)

A calculus-based study of the fundamental principles and concepts of electricity, magnetism, and light. Designed for students planning additional course work in chemistry, physics, engineering, or mathematics. The laboratory (PHYS 233) must be taken concurrently. Note that there is no coverage of topics in "modern physics" (e.g., special relativity, quantum mechanics, etc.).

Prerequisite(s):

PHYS 230 Minimum Grade: C- OR T
AND

MATH 121 Minimum Grade: C- OR T

Co-requisite(s): PHYS 233

PHYS 233 - Gen Phys II Lab (Cal) GT-SC1

1 Credit(s)

One two-hour laboratory per week with lab projects that coincide with the lecture material in PHYS 232. A calculus-based treatment of data will be required for some lab projects. The laboratory experience provides a vital link for students in their development of an ability to apply mathematics to simple systems, allowing them to analyze the system for a theoretical behavior and to account for the errors which give them the observed behavior.

Prerequisite(s):

PHYS 230 Minimum Grade: D OR T
AND

PHYS 231 Minimum Grade: D OR T

Co-requisite(s): PHYS 232

Completion of the Following

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic

financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

- BUS or ECON electives (100- or 200-level): **3 Credit(s)**
- Electives: **4 Credit(s)**

Total completion of a minimum of 60 credits for this degree

Bachelor of Arts in Business Administration, Advertising Emphasis

Go to: Business

In addition to the Graduation Requirements for Undergraduates:

Advertising Emphasis

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an

introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

AR 202 - In Design

3 Credit(s)

This course is intended for non-Art majors and will provide theory and practical experience on graphic design and applied art processes in print and presentation design. Students will study the basics in graphic design, the history of visual communication, typography, and the role of illustration and photography in graphic communications.

AR 206 - Studio One

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional and three-dimensional design fundamentals). It is recommended to take AR-206 Studio One prior to AR 207 Studio Two.

AR 207 - Studio Two

3 Credit(s)

A foundation studio course in art practice and concepts (includes two-dimensional, three-dimensional and time based/new media design fundamentals). There is no pre-requisite but it is recommended to take AR 206 Studio One prior to AR-207 Studio Two.

AR 208 - Drawing

3 Credit(s)

Develop basic drawing skills using a variety of media and subject matter (e.g. models, still lifes, landscapes, etc.). An emphasis on composition, contour, gesture, value, and linear perspective. This course has a course specific fee to cover the costs of some materials.

Plus 4 Courses of the Following

AR 301 - Typography

3 Credit(s)

This course is intended primarily for art majors who chose graphic design as their area of emphasis. It is also open to any other art major or non-art major. This course will focus on a broad study of typography, its terminology, history, and application in the field of graphic design.

Prerequisite(s):

AR 206 Minimum Grade: C- OR T

AR 306 - Illustrator

3 Credit(s)

This course is an advanced design class. Using Adobe Illustrator, students will study design concepts related to computer graphics, illustration, and typography as well as historical traditions in graphic design.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

AR 310 - Photoshop

3 Credit(s)

This course is an advanced study of the design relating to the work of the graphic designer. Students learn Adobe PhotoShop software and work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 202 Minimum Grade: C- OR T
OR

AR 281 Minimum Grade: C- OR T

AR 312 - Design for the Internet

3 Credit(s)

This course will provide an introduction to theories and practical experience with graphic design as applied to the Internet. Students will study the basics in web page and web site design using current industry standard software, HTML and XHTML. Within the course, students will create web pages and sites suitable for course work, professional purposes, and personal use. Students will also explore common web page formats and functions. Emphasis will be on the aesthetics of Internet design.

AR 381 - Intermediate Digital Photography

3 Credit(s)

Continued exploration of digital photography as an art medium. The course will delve further into photographic applications in Adobe Photoshop with emphasis on maximizing image quality using masks and blending modes. Introduction to fine art printing and papers. Emphasis on concept and creative expression. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 281 Minimum Grade: C- OR T

AR 401 - Advanced Graphic Design

3 Credit(s)

An advanced study of the design relating to the work of the graphic designer. Students learn PhotoShop software and

work on advanced design projects such as book and CD covers, posters, corporate identity projects, and package design, etc. This course has a course specific fee to cover the costs of some materials.

Prerequisite(s):

AR 306 Minimum Grade: C- OR T

AND

AR 310 Minimum Grade: C- OR T

Complete these Required Courses

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

AR 281 - Beginning Digital Photography

3 Credit(s)

This course is an introduction to digital photography. The course will cover digital camera functions and an introduction to Adobe Bridge and Adobe PhotoShop applications. Emphasis on photography as a medium for creative expression. Students must supply their own digital camera. Cameras with the ability to shoot in a raw format are preferred. This course has a course specific fee to cover the costs of some materials.

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 335 - Consumer Behavior

3 Credit(s)

Study of consumer behavior as it relates to the marketing functions. Emphasis on the models of consumer behavior and their application to practical marketing problems.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 345 - Advertising

3 Credit(s)

Discusses the history, purposes, and regulations of the advertising industry. Topics covered include creative principles, media advantages and disadvantages, media planning, regulation of advertising, and coordination with other promotion activities.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 448 - Interactive/Social Media Marketing

3 Credit(s)

This course focuses on relationship marketing, interactive marketing, integration of consumer data, Internet marketing

(E-commerce), media advertising, catalogs, mailing lists, telemarketing, and the use of direct marketing techniques to replace or enhance the traditional marketing methods of retail and direct sales.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 454 - Market Research & Information

3 Credit(s)

Study of the theory and methods used in marketing research to address marketing problems. May include the completion of a research project where students learn by performing a research project from problem formulation to writing a research report. Also prepares the students for evaluating research performed by others.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T
AND

BUS 318 Minimum Grade: C- OR T

BUS 460 - Marketing Management

3 Credit(s)

Twelve hours of marketing courses and senior status required. Capstone course in marketing. Study of the problems faced by marketing managers as they make decisions and develop policies.

Prerequisite(s):

BUS 454 Minimum Grade: C- OR T

BUS 466 - Business Ethics Decision Making

3 Credit(s)

This course explores various ethical issues facing business leaders in modern society. Students will utilize current issues to analyze ethical dilemmas and decision-making processes common to modern organizations. Emphasizes critical thinking, critical reading, and the importance of professional ethics.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

Plus 9 credits from speech and/or journalism

Plus 6 credits from business

**Bachelor of Arts in Business Administration, General Business
Emphasis**

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Bachelor of Arts in Business Administration, International Business Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal

financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

International Business Emphasis

BUS 335 - Consumer Behavior

3 Credit(s)

Study of consumer behavior as it relates to the marketing functions. Emphasis on the models of consumer behavior and their application to practical marketing problems.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 373 - Investment Analysis

3 Credit(s)

BUS 318 recommended. The course is a study of personal investment planning, traditional and alternative investment vehicles, investment media, investment strategy, and portfolio analysis. The student will become familiar with both money market and capital investment markets as well as strategies for assessing returns and risks of various security instruments.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T
AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

BUS 383 - International Financial Management

3 Credit(s)

A comprehensive study of international financial markets that covers currency exchange mechanisms in theory and practice. In line with the rapid globalization of the economy, the goal of this course is to analyze the international financial environment and how managers function in this increasingly uncertain global environment. The course will focus on three main areas of international finance: international financial environment, exchange rate behavior, and exchange risk management.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 441 - International Marketing

3 Credit(s)

Analysis of opportunities, distinctive characteristics, and emerging trends in foreign markets, including exploration of alternative methods and strategies for entering foreign markets; organizational planning and control; impact of social, cultural, economic, and political differences; and problems of adapting American marketing concepts and methods. This is accomplished through real life planning and implementation of an international marketing plan designed to market a product or service in a foreign country or countries

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 498 - World Food Distribution/Agricultural Economics

3 Credit(s)

Knowledge and application of economic concepts to the sectors of agriculture including microeconomic and macroeconomic relationships, world markets, and trade.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Plus 9 Credits from Political Science, History, or Languages (in Consultation with Your Advisor)

Bachelor of Arts in Interdisciplinary Studies, Individualized program of study

Go to: Interdisciplinary Studies

Students design a degree program that intentionally combines coursework from two different disciplines.

The Bachelor of Arts in Interdisciplinary Studies degree allows students to design a program of study combining two subject areas. No more than 30 credits of coursework with the same prefix can be used to satisfy the combined 40 credits (20 + 20) needed for the emphasis areas (e.g. no more than 30 BUS credits, no more than 30 HIST credits, no more than 30 CHEM credits, etc. can be applied toward the emphases).

Area I (20 Credit Hours)

Area II (20 Credit Hours)

Requirements

- Courses applied toward the Undergraduate General Education Requirements cannot also be used for credit in an emphasis area.
- At least 15 of the required 42 upper-division hours must fall within the (combined) emphasis areas.
- Courses associated with emphasis areas must be completed with a grade of 'C-' or higher.
- At least 12 of the 40 credit hours associated with the emphasis areas must be Adams State University courses.
- At least 30 credit hours (of the required 120) must be Adams State University courses.

Bachelor of Arts in Sociology, Criminology Emphasis

Go to: Sociology

Note for Sociology Students

- Completion of SOC 201 is a prerequisite for all other sociology courses.
- All Sociology Majors must meet the requirements of the Local Writing Assessment in Sociology as well as the Internship, ePortfolio, and Final Review.

Sociology Required Courses

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

SOC 245 - Criminology

3 Credit(s)

Criminology is an introductory course to the study of crime and criminal behavior with special emphasis on theories of crime and delinquency causation, rates and extent of crime, and social control agents (i.e., the police, courts, and "corrections"). Special topics examined may include gangs, white-collar crimes, property crimes, victimless crimes, and organized crime.

SOC 251 - Social Problems

3 Credit(s)

This course is designed to provide the student with a survey of selected contemporary social problems. Social problems addressed in the class may include poverty, addiction and substance abuse, mental health, violence with a focus on family violence, crime, teen sexuality and pregnancy, and health care issues. The causes, severity, and consequences of the selected social problems are explored. In addition, strategies for alleviating social problems are presented.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

AND

LS 225 Minimum Grade: C- OR T

SOC 255 - Research And Writing in Sociology

3 Credit(s)

This introductory course in social research and writing in sociology offers an overview of how sociologists study the social world, research social phenomena, and write about their findings. This class provides an overview of knowledge production and methods used by sociologists to develop a research agenda, test hypotheses, and refine theories and sociological inquiry. Students will gain the tools needed to conduct social research while also developing the skills necessary to read and critically evaluate sociological research. Students will learn fundamental concepts and

mixed methods approach to sociological research. Students will summarize research and identify (1) the research question, (2) assumptions and propositions of the theory, (3) specific hypothesis, (4) methods used, and (5) the findings and results.

Prerequisite(s):

SOC 201 minimum grade C-

SOC 311 - Social Statistics

4 Credit(s)

This course presents a general overview of the statistical methods most commonly used in sociology and the social sciences. As a laboratory component, students will become proficient in SPSS, a computer program designed to aid statistical analysis. These skills will enable the student to read popular applications of statistics in the media with a critical eye; assess the use of statistics in the professional sociological literature; and use statistical tools to answer the sociological questions of interest.

Prerequisite(s):

SOC 255 Minimum Grade: C-

AND

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

SOC 318 - Race, Class, and Gender

3 Credit(s)

The focus of this course is on the interrelated ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result and the dynamics of change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 395 - Pre-Professional Seminar

2 Credit(s)

This course provides an introduction to the profession of sociology and the various career options available to graduates. Occupational and graduate school options are explored in detail through library research, presentations,

observational and volunteer experiences, and informational interviews. Skills for job interviewing, resume development, and professional correspondence are explored.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 445 - Sociological Theory

3 Credit(s)

The major theories of society are covered in their classical and contemporary forms.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 455 - Qualitative Research Methods

4 Credit(s)

This course is designed to expose students to a variety of qualitative research methods. Students will be instructed in the fundamentals of research design and implementation, including ethical considerations. Students will read and study the research projects of selected sociologists. Students will engage in multiple hands-on activities to practice research methods. Each student will design a qualitative research project. In the lab component of the course, students will analyze and interpret qualitative data. Finally, students will learn to conduct content analysis, and use grounding theory to code and analyze their data and write a final project report. This course includes a lab day each week and is a 4-credit course.

Prerequisite(s):

SOC 201 Minimum Grade: C-
AND

SOC 255 Minimum Grade: C-

SOC 493 - Internship in Sociology

3 Credit(s)

Students in Sociology are placed at an internship site in the community and conduct a mentored capstone case study. Ninety hours of service with the agency are required. The student is supervised by both a Sociology faculty member and a representative from the human service agency. Instructor approval required for registration purposes.

Prerequisite(s):

Special permission and senior standing.

Criminology Emphasis

SOC 346 - Criminal Justice

3 Credit(s)

The focus of this course is on the organizational structures and social processes of the American criminal justice system. It will examine criminal law, policing, courts, and corrections.

SOC 447 - Correctional Systems

3 Credit(s)

This course will focus on corrections as one of the components of the American criminal justice system and its operation within a democratic form of government. The philosophical and historical underpinnings of punishment and correction will be analyzed and compared (e.g., punishment vs. rehabilitation).

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

SOC 346 Minimum Grade: C- OR T

Choose 1 of the following electives

SOC 347 - Juvenile Delinquency

3 Credit(s)

This course describes the nature of delinquency, including the trends, characteristics, and causes of juvenile delinquency. In addition, the course will examine theories of delinquency, social influences on delinquency, historical and contemporary overviews of the juvenile justice system, and the juvenile justice process from police involvement to the court system and corrections. Finally, methods of treatment and prevention will be identified.

SOC 348 - Women and Crime

3 Credit(s)

This course will address the role women play as criminals, victims, and professionals in the criminal justice system. This course will examine the important intersection between gender and crime, exploring the nature and extent of women's involvement in the criminal justice system. The course will investigate and discuss the relationship between victimization and offending, and study the unique way women are involved in and impacted by the criminal justice system, with case study examples from real crimes.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 444 - Deviance and Control

3 Credit(s)

The sociology of deviance and control examines the nature of rule-making and rule-breaking in modern societies. The course includes theoretical considerations of the causes and consequences of deviance.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

Choose 2 Courses from these Sociology Electives

SOC 279 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

SOC 305 - Rural Sociology

3 Credit(s)

The purpose of this course is to introduce some of the social, political, environmental, and economic problems and prospects associated with rural America. Special attention will also be given rural community services and social institutions, with some focus on the San Luis Valley and other parts of rural Colorado.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 315 - Sociology of Education

3 Credit(s)

This course explores the relationship between education and society with special emphasis on the effects of this relationship on the lives of students in the American education system.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 320 - Marriages and Families

3 Credit(s)

This course will provide an overview of the family from a sociological perspective. The family is considered to be one of the most private and pervasive institutions in society. All of us have had contact with at least one family, and many of us will be involved in several different families during our lifetime. Our experiences point to the numerous transformations in family life. To obtain a better understanding of these changes, recent sociological research and data on the family will be utilized in this course. In addition to examining the history of the family, the course will study the contemporary family and its diversity. The course will examine traditional marriage/family arrangements and alternative processes of mate selection and family formation. Finally, the course will examine parenting, the relationship between work and family, divorce and reconstituted families.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 345 - Women, Sport, and Society

3 Credit(s)

This course will explore how women have been involved in sports and athletics, how they have fought to claim recognition and legitimacy among historically male dominated settings, and how they continue to shape sports and the

role of women in society. We will explore a wide variety of topics in society related to women in sports including historical influences, equitable access, characteristics of female sport participation, sport opportunities, and sport leadership. Topics will include Title IX, female bodies and physiology, sport diversity, gender identity, women's sport and aging, disabilities, sport and sexual violence, media and women's portrayal in sports, competitive sports in high school, college, and professional leagues, and marketing women's sports.

SOC 347 - Juvenile Delinquency

3 Credit(s)

This course describes the nature of delinquency, including the trends, characteristics, and causes of juvenile delinquency. In addition, the course will examine theories of delinquency, social influences on delinquency, historical and contemporary overviews of the juvenile justice system, and the juvenile justice process from police involvement to the court system and corrections. Finally, methods of treatment and prevention will be identified.

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Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 365 - Race and Ethnicity in the U.S.

3 Credit(s)

This course provides a sociological approach to race and ethnic relations in the U.S. today. This course introduces the basic sociological theories and perspectives related to the study of race and ethnicity, the histories, and present status of different racial and ethnic groups in the United States and raises questions about continuing racial discrimination and inequality in our society. Issues of defining race, racial identity, interpersonal and institutional discrimination, segregation, and affirmative action (among others) are explored.

SOC 370 - Poverty and Wealth

3 Credit(s)

This course examines the historical and socio-cultural factors which influence the creation and maintenance of poverty and wealth. Emphasis will be on structural factors and theoretical explanations of poverty and inequality. This course will also focus on the implications for policy and social programs aimed at poverty and other social class issues. In addition, there will be exploration of systems of power, privilege, and domination that are central to the American social structure. Finally, the issues of empowerment, resistance, and solutions to social inequality will be assessed.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

AND

SOC 251 Minimum Grade: C- OR T

SOC 379 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

SOC 391 - Sociology of Religion

3 Credit(s)

This course will introduce students to an examination of religion through sociological inquiry and imagination. Students will learn how sociologists study religion and will apply classical and contemporary sociological theories to understand both personal religious experiences/identities and organized religion as a social phenomenon. The course explores socialization into religions, the processes of conversion and apostasy, and various forms of organizational structures for religious groups. Other issues to be explored include how religious identity and structure connect to gender, race, sexuality, and social class; competition and conflict between different religious groups; as well as the tension between religion as a social institution and secularization trends in the contemporary US.

Prerequisite(s):

Junior standing

SOC 401 - Self & Society

3 Credit(s)

This course will look at social psychology from a sociological perspective. More specifically, students will utilize the symbolic interactionist theory to examine how identities, selves, social life, and social reality are products of ongoing social interactions.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 419 - Gender and Society

3 Credit(s)

The aim of the course is for students to become familiar with the continuing differences and inequalities between women and men in the contemporary United States, and to begin to explain why and how they occur through a sociological lens. Understanding gender as it relates to other social identities (for example, race, class and sexuality) is an important organizing framework of the course. Students will learn about the gendered arrangements in a variety of social contexts such as education, the media, work and the economy, and the family.

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 430 - Social Movements

3 Credit(s)

This course is designed to provide an analysis of social movements on a broad array of topics including issues of how they form, why they form, when are they successful, and whether they change society. We will be looking at broader historical movements from the civil rights movement, the environmental movement and the feminist movement as well as more recent movements, on race, class and gender issues. We will look at how they relate to diversity and equity, social justice, globalization, and cultural change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 440 - Diversity in Media

3 Credit(s)

Students will analyze how US media represents traditionally marginalized people in the United States. The course will be primarily research, case study, and discussion based, with students and instructor working together to generate ideas and critique dominant ideologies.

SOC 444 - Deviance and Control

3 Credit(s)

The sociology of deviance and control examines the nature of rule-making and rule-breaking in modern societies. The course includes theoretical considerations of the causes and consequences of deviance.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 479 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

Note:

- For students choosing the Criminology emphasis: SOC 352, SOC 370, and SOC 470 are also available as elective courses.
- For students choosing the Social Work emphasis: SOC 346, SOC 347, and SOC 447 are also available as elective courses.

Bachelor of Arts in Sociology, Social Work Emphasis

Go to: Sociology

Note for Sociology Students

- Completion of SOC 201 is a prerequisite for all other sociology courses.
- All Sociology Majors must meet the requirements of the Local Writing Assessment in Sociology as well as the Internship, ePortfolio, and Final Review.

Sociology Required Courses

SOC 201 - Social Imagination GT-SS3

3 Credit(s)

The social world is often taken for granted or reduced to explanations that stem from conventional wisdom and personal experience. This course is designed to encourage students to develop social scientific frameworks for analyzing the social world in a context that transcends conventional wisdom and personal experience. The major question is "what are the social forces, operating in society and often beyond the control of individuals, that shape individual behaviors and societal changes?" Topics include culture, socialization structure, organizational behavior, social groups, deviance, and social institutions (family, religion, education, and political economy).

SOC 245 - Criminology

3 Credit(s)

Criminology is an introductory course to the study of crime and criminal behavior with special emphasis on theories of crime and delinquency causation, rates and extent of crime, and social control agents (i.e., the police, courts, and "corrections"). Special topics examined may include gangs, white-collar crimes, property crimes, victimless crimes, and organized crime.

SOC 251 - Social Problems

3 Credit(s)

This course is designed to provide the student with a survey of selected contemporary social problems. Social problems addressed in the class may include poverty, addiction and substance abuse, mental health, violence with a focus on family violence, crime, teen sexuality and pregnancy, and health care issues. The causes, severity, and consequences of the selected social problems are explored. In addition, strategies for alleviating social problems are presented.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

LS 225 Minimum Grade: C- OR T

SOC 255 - Research And Writing in Sociology

3 Credit(s)

This introductory course in social research and writing in sociology offers an overview of how sociologists study the social world, research social phenomena, and write about their findings. This class provides an overview of knowledge production and methods used by sociologists to develop a research agenda, test hypotheses, and refine theories and sociological inquiry. Students will gain the tools needed to conduct social research while also developing the skills necessary to read and critically evaluate sociological research. Students will learn fundamental concepts and mixed methods approach to sociological research. Students will summarize research and identify (1) the research question, (2) assumptions and propositions of the theory, (3) specific hypothesis, (4) methods used, and (5) the findings and results.

Prerequisite(s):

SOC 201 minimum grade C-

SOC 311 - Social Statistics

4 Credit(s)

This course presents a general overview of the statistical methods most commonly used in sociology and the social sciences. As a laboratory component, students will become proficient in SPSS, a computer program designed to aid statistical analysis. These skills will enable the student to read popular applications of statistics in the media with a critical eye; assess the use of statistics in the professional sociological literature; and use statistical tools to answer the sociological questions of interest.

Prerequisite(s):

SOC 255 Minimum Grade: C-

AND

MATH 104 Minimum Grade: C- or T

OR

MATH 106 Minimum Grade: C- or T

OR

MATH 110 Minimum Grade: C- or T

OR

MATH 120 Minimum Grade: C- or T

SOC 318 - Race, Class, and Gender

3 Credit(s)

The focus of this course is on the interrelated ascribed statuses of "race," social class, gender, and sexual orientation in American society, how they are perceived and reinforced, the social tensions that result and the dynamics of change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 395 - Pre-Professional Seminar

2 Credit(s)

This course provides an introduction to the profession of sociology and the various career options available to graduates. Occupational and graduate school options are explored in detail through library research, presentations, observational and volunteer experiences, and informational interviews. Skills for job interviewing, resume development, and professional correspondence are explored.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 445 - Sociological Theory

3 Credit(s)

The major theories of society are covered in their classical and contemporary forms.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 455 - Qualitative Research Methods

4 Credit(s)

This course is designed to expose students to a variety of qualitative research methods. Students will be instructed in the fundamentals of research design and implementation, including ethical considerations. Students will read and study the research projects of selected sociologists. Students will engage in multiple hands-on activities to practice research methods. Each student will design a qualitative research project. In the lab component of the course, students will analyze and interpret qualitative data. Finally, students will learn to conduct content analysis, and use grounding theory to code and analyze their data and write a final project report. This course includes a lab day each week and is a 4-credit course.

Prerequisite(s):

SOC 201 Minimum Grade: C-
AND

SOC 255 Minimum Grade: C-

SOC 493 - Internship in Sociology

3 Credit(s)

Students in Sociology are placed at an internship site in the community and conduct a mentored capstone case study. Ninety hours of service with the agency are required. The student is supervised by both a Sociology faculty member and a representative from the human service agency. Instructor approval required for registration purposes.

Prerequisite(s):

Special permission and senior standing.

Social Work Emphasis

SOC 352 - Social Work Practices

3 Credit(s)

This course is an introduction to the nuts-and-bolts of social work practice. The course is designed with several general objectives in mind: (1) to familiarize the student with specific techniques of social work such as the person-in-environment approach and case management, (2) to provide a fundamental understanding of roles of community and family in social work practice, (3) to explore the needs of selected special populations in the community, (4) to identify the biological, psychological, and social influences on development and behavior across the life cycle, and (5) to introduce the student to fundamental social work practice skills.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

AND

SOC 251 Minimum Grade: C- OR T

SOC 470 - Social and Public Programs

3 Credit(s)

This course analyzes the historical development, current content, and adequacy of social welfare policies in the United States. Specific policy areas to be discussed include income maintenance (including social insurance and public assistance), mental health, health care, and aging.

Prerequisite(s):

SOC 352 Minimum Grade: C- OR T

Choose 1 of the following electives

SOC 320 - Marriages and Families

3 Credit(s)

This course will provide an overview of the family from a sociological perspective. The family is considered to be one of the most private and pervasive institutions in society. All of us have had contact with at least one family, and many of us will be involved in several different families during our lifetime. Our experiences point to the numerous transformations in family life. To obtain a better understanding of these changes, recent sociological research and data on the family will be utilized in this course. In addition to examining the history of the family, the course will study the contemporary family and its diversity. The course will examine traditional marriage/family arrangements and alternative processes of mate selection and family formation. Finally, the course will examine parenting, the relationship between work and family, divorce and reconstituted families.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 370 - Poverty and Wealth

3 Credit(s)

This course examines the historical and socio-cultural factors which influence the creation and maintenance of poverty and wealth. Emphasis will be on structural factors and theoretical explanations of poverty and inequality. This course will also focus on the implications for policy and social programs aimed at poverty and other social class issues. In addition, there will be exploration of systems of power, privilege, and domination that are central to the American

social structure. Finally, the issues of empowerment, resistance, and solutions to social inequality will be assessed.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

SOC 251 Minimum Grade: C- OR T

Choose 2 Courses from these Sociology Electives

SOC 279 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

SOC 305 - Rural Sociology

3 Credit(s)

The purpose of this course is to introduce some of the social, political, environmental, and economic problems and prospects associated with rural America. Special attention will also be given rural community services and social institutions, with some focus on the San Luis Valley and other parts of rural Colorado.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

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3 Credit(s)

This course explores the relationship between education and society with special emphasis on the effects of this relationship on the lives of students in the American education system.

Prerequisite(s):

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Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 345 - Women, Sport, and Society**3 Credit(s)**

This course will explore how women have been involved in sports and athletics, how they have fought to claim recognition and legitimacy among historically male dominated settings, and how they continue to shape sports and the role of women in society. We will explore a wide variety of topics in society related to women in sports including historical influences, equitable access, characteristics of female sport participation, sport opportunities, and sport leadership. Topics will include Title IX, female bodies and physiology, sport diversity, gender identity, women's sport and aging, disabilities, sport and sexual violence, media and women's portrayal in sports, competitive sports in high school, college, and professional leagues, and marketing women's sports.

SOC 347 - Juvenile Delinquency**3 Credit(s)**

This course describes the nature of delinquency, including the trends, characteristics, and causes of juvenile delinquency. In addition, the course will examine theories of delinquency, social influences on delinquency, historical and contemporary overviews of the juvenile justice system, and the juvenile justice process from police involvement to the court system and corrections. Finally, methods of treatment and prevention will be identified.

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Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 365 - Race and Ethnicity in the U.S.**3 Credit(s)**

This course provides a sociological approach to race and ethnic relations in the U.S. today. This course introduces the basic sociological theories and perspectives related to the study of race and ethnicity, the histories, and present status of different racial and ethnic groups in the United States and raises questions about continuing racial discrimination and inequality in our society. Issues of defining race, racial identity, interpersonal and institutional discrimination, segregation, and affirmative action (among others) are explored.

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This course examines the historical and socio-cultural factors which influence the creation and maintenance of poverty and wealth. Emphasis will be on structural factors and theoretical explanations of poverty and inequality. This course will also focus on the implications for policy and social programs aimed at poverty and other social class issues. In addition, there will be exploration of systems of power, privilege, and domination that are central to the American social structure. Finally, the issues of empowerment, resistance, and solutions to social inequality will be assessed.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T
AND

SOC 251 Minimum Grade: C- OR T

SOC 379 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

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3 Credit(s)

This course will introduce students to an examination of religion through sociological inquiry and imagination. Students will learn how sociologists study religion and will apply classical and contemporary sociological theories to understand both personal religious experiences/identities and organized religion as a social phenomenon. The course explores socialization into religions, the processes of conversion and apostasy, and various forms of organizational structures for religious groups. Other issues to be explored include how religious identity and structure connect to gender, race, sexuality, and social class; competition and conflict between different religious groups; as well as the tension between religion as a social institution and secularization trends in the contemporary US.

Prerequisite(s):

Junior standing

SOC 401 - Self & Society

3 Credit(s)

This course will look at social psychology from a sociological perspective. More specifically, students will utilize the symbolic interactionist theory to examine how identities, selves, social life, and social reality are products of ongoing social interactions.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 419 - Gender and Society

3 Credit(s)

The aim of the course is for students to become familiar with the continuing differences and inequalities between women and men in the contemporary United States, and to begin to explain why and how they occur through a sociological lens. Understanding gender as it relates to other social identities (for example, race, class and sexuality) is

an important organizing framework of the course. Students will learn about the gendered arrangements in a variety of social contexts such as education, the media, work and the economy, and the family.

SOC 425 - Environment and Society

3 Credit(s)

The primary objective of this course is to look at the ways in which human societies - their values, behaviors, traditions, beliefs, institutions, and governments - relate to and impact the physical environment. Topics explored include: environmental movements, globalization environmental management, and government and economic policies.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 430 - Social Movements

3 Credit(s)

This course is designed to provide an analysis of social movements on a broad array of topics including issues of how they form, why they form, when are they successful, and whether they change society. We will be looking at broader historical movements from the civil rights movement, the environmental movement and the feminist movement as well as more recent movements, on race, class and gender issues. We will look at how they relate to diversity and equity, social justice, globalization, and cultural change.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 440 - Diversity in Media

3 Credit(s)

Students will analyze how US media represents traditionally marginalized people in the United States. The course will be primarily research, case study, and discussion based, with students and instructor working together to generate ideas and critique dominant ideologies.

SOC 444 - Deviance and Control

3 Credit(s)

The sociology of deviance and control examines the nature of rule-making and rule-breaking in modern societies. The course includes theoretical considerations of the causes and consequences of deviance.

Prerequisite(s):

SOC 201 Minimum Grade: C- OR T

SOC 479 - Special Topics

1 to 5 Credit(s)

Offered periodically to meet student special interests in the field.

Note:

- For students choosing the Criminology emphasis: SOC 352, SOC 370, and SOC 470 are also available as elective courses.
- For students choosing the Social Work emphasis: SOC 346, SOC 347, and SOC 447 are also available as elective courses.

Bachelor of Science in Business Administration, Accounting Emphasis

Go to: Business

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T
AND

BUS 304 Minimum Grade: C- OR T
AND

BUS 361 Minimum Grade: C- OR T
AND

BUS 363 Minimum Grade: C- OR T
AND

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

Accounting Emphasis

BUS 305 - Intermediate Accounting I

4 Credit(s)

The first of a two-course sequence of Intermediate Accounting designed to develop a framework for the role financial accounting plays in the world of business. A study of the conceptual basis of accounting will be conducted, creating a more in-depth understanding of the preparation and interpretation of financial statements and related information. This course will focus on the study of modern-day accounting theory and application of generally accepted accounting principles to various topics and financial statement elements. Students will be introduced to the U.S. Accounting Standards Codification and basic research tools.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 306 - Intermediate Accounting II

4 Credit(s)

The second of a two-course sequence of Intermediate Accounting designed to develop a framework for the role financial accounting plays in the world of business. A study of the conceptual basis of accounting will be conducted, creating a more in-depth understanding of the preparation and interpretation of financial statements and related information. This course will focus on the study of modern-day accounting theory and application of generally accepted accounting principles to various topics and financial statement elements. Students will continue their use of the U.S. Accounting Standards Codification as a research tools.

Prerequisite(s):

BUS 305 Minimum Grade: C- OR T

BUS 307 - Managerial Cost Accounting I

3 Credit(s)

Principles and methods of recording and interpreting cost data. Major emphasis on developing accounting information for planning, control, and decision making.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 355 - Individual Income Taxation

4 Credit(s)

This course involves the study of federal income tax on individual and property transactions. Objectives of taxation are given major emphasis. The Internal Revenue Code is discussed in addition to textbook material in order to acquaint the student with the ultimate source of tax law. Income tax return problems and tax cases may be assigned to provide practical application of the tax law.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 360 - Government and Institution Accounting

3 Credit(s)

Study of accounting procedures related to governmental units and nonprofit institutions.

Prerequisite(s):

BUS 305 Minimum Grade: C- OR T

BUS 405 - Advanced Accounting

4 Credit(s)

BUS-405 involves preparation and study of the need for consolidated financial statements. Additionally, it examines accounting problems associated with partnerships and foreign currency transactions.

Prerequisite(s):

BUS 306 Minimum Grade: C- OR T

BUS 407 - Auditing I

3 Credit(s)

Study of ethical standards, auditing standards, audit procedures, and evolution of internal control to learn how financial statements are examined and audit reports prepared in accordance with Generally Accepted Auditing Standards.

Prerequisite(s):

BUS 305 Minimum Grade: C- OR T
AND

BUS 306 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 409 - Fraud Examination

3 Credit(s)

This class will explain how occupational fraud is committed, how fraudulent conduct can be deterred and how allegations of fraud should be investigated and resolved.

Prerequisite(s):

BUS 305 Minimum Grade: C- OR T

BUS 455 - Entity Taxation

4 Credit(s)

Business 455 concentrates on the federal income tax consequences of the formation, normal operation, and the dissolution of corporations, partnerships, and fiduciaries. Other taxation problems of special interest may be covered.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

Electives

BUS 308 - Managerial Cost Accounting II

3 Credit(s)

Principles and methods of recording and interpreting cost data. Major emphasis on developing accounting information for planning, control, and decision making.

Prerequisite(s):

BUS 307 Minimum Grade: C- OR T

BUS 358 - Accounting Ethics

3 Credit(s)

Ethics as it applies to the accounting and auditing professions and will be the focus of this course. Emphasis will be on the concept of independence, along with integrity, objectivity, ethical reasoning, and other core values necessary for a high level of professional ethics in the accounting profession.

Prerequisite(s):

BUS 306 Minimum Grade: C- OR T

BUS 371 - Payroll Accounting and Taxation

3 Credit(s)

This course is devoted to the principles of payroll computations and administration including creation and maintenance of payroll records as well as proper payroll tax depositing and reporting.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 377 - Agricultural Taxation

3 Credit(s)

This course is devoted to specific income tax laws associated with agricultural business to include farmers and ranchers both as individuals and as part of taxable entities.

Prerequisite(s):

BUS 355 Minimum Grade: C- OR T

BUS 465 - Estate, Gift, and Fiduciary Tax Law

3 Credit(s)

This course will address the fundamentals of Estate, Gift, and Fiduciary tax law. Topics will include Federal Gift Tax, death transfer tax laws, and fundamentals and reporting returns for estates.

Prerequisite(s):

BUS 455 Minimum Grade: C- OR T

Bachelor of Science in Business Administration, Agribusiness Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both

defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Agribusiness Emphasis

BUS 105 - Introduction to Agribusiness

3 Credit(s)

An introductory course designed to provide students with a basic background in agribusiness issues and practices to give them the foundation to be successful in upper level agribusiness courses and meet expectations for basic knowledge in agribusiness relationships.

BUS 364 - Agribusiness Management

3 Credit(s)

Management issues of agricultural businesses such as the forms of ownership, financial statements, analysis, and planning, investment analysis, strategic marketing, management of organizations, and human resources management.

Prerequisite(s):

BUS 105 Minimum Grade: C- OR T

AND

BUS 207 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

BUS 378 - Commodities/Risk Management

3 Credit(s)

The goal of this course is to provide students with knowledge of risk management for agricultural endeavors as well as practical knowledge of how the futures and options markets work, how to manage risk involved in agriculture production or operation, and various tools available to manage specific situations. BUS 103 Introduction to Business or instructor consent. BUS 105 Introduction to Agribusiness or instructor consent. BUS 318 Principles of Management or instructor consent.

Prerequisite(s):

BUS 103 Minimum Grade: D OR T

AND

BUS 105 Minimum Grade: D OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 384 - Natural Resources/Water Law

3 Credit(s)

The goal of this course is to provide students with knowledge of the regulatory responsibilities related to agriculture production and operations with respect to natural resources and water. The course will cover federal, state, and local requirements as well as application to agribusiness endeavors.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 211 Minimum Grade: C- OR T

BUS 398 - Farm and Ranch Management

3 Credit(s)

The application of economic and business principles to the management and operation of farms and ranches for decision making purposes.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 207 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

BUS 478 - Agricultural Marketing

3 Credit(s)

An overview of current marketing methods used for agricultural products and services, including value added marketing.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 488 - Agricultural Policy and Farm Bill

3 Credit(s)

Development and implementation of public policy in agriculture, implications of international competition and trade, and development and interpretation of argument in policy development.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

BUS 498 - World Food Distribution/Agricultural Economics

3 Credit(s)

Knowledge and application of economic concepts to the sectors of agriculture including microeconomic and macroeconomic relationships, world markets, and trade.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Plus 12 Upper-level Business Credits as Approved by Advisor

Bachelor of Science in Business Administration, Banking and Finance Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Finance Emphasis (21 credits from the following)

BUS 367 - Financial Analysis

3 Credit(s)

Examination of techniques for analyzing, understanding, and applying financial information in decision situations. Topics start with financial statement analysis, development of financial models, financial forecasting, cost of capital estimation, and ends with company valuation. In addition, there will be a "hands on" project to provide students with experience in analyzing and understanding a corporate annual report using EXCEL spread sheet analysis.

Prerequisite(s):

BUS 320 Minimum Grade: C- OR T
AND

BUS 363 Minimum Grade: C- OR T

BUS 368 - Financial Institutions

3 Credit(s)

The course focuses on managing return and risk in modern financial institutions. It examines the financial services

industry risk of financial intermediation, measurement of interest rate risk, credit and market risk, individual loan and liquidity risks, as well as off-balance sheet and sovereign risks. The course covers management of assets and liabilities, capital adequacy and depository insurance. Futures, forwards, options, caps, floors, collars, swaps and securitization will be also covered.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 373 - Investment Analysis

3 Credit(s)

BUS 318 recommended. The course is a study of personal investment planning, traditional and alternative investment vehicles, investment media, investment strategy, and portfolio analysis. The student will become familiar with both money market and capital investment markets as well as strategies for assessing returns and risks of various security instruments.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

BUS 383 - International Financial Management

3 Credit(s)

A comprehensive study of international financial markets that covers currency exchange mechanisms in theory and practice. In line with the rapid globalization of the economy, the goal of this course is to analyze the international financial environment and how managers function in this increasingly uncertain global environment. The course will focus on three main areas of international finance: international financial environment, exchange rate behavior, and exchange risk management.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 414 - Commercial Banking

3 Credit(s)

Bank Management is an in-depth study of banking institutions, with special emphasis on commercial banks and their connection to the Federal Reserve System and other financial institutions. A risk management perspective is adopted, and the fast changing global regulatory and financial environments are discussed. A Uniform Bank Performance Report will be analyzed.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 416 - Business Financial Problems

3 Credit(s)

Emphasis on financial decision-making within the firm using case studies as the primary activity. Topics include financial goals and strategy, financial analysis and forecasting, capital budgeting, capital structure decisions, dividend policy, and firm valuation.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 426 - Money and Capital Markets

3 Credit(s)

Discussion of how financial markets are organized, their role in the allocation of funds to various market segments, and the interaction between financial markets. Topics include aggregate flow of funds analysis, an overview of financial markets, securities markets (money, bond, mortgage, stock, foreign exchange, derivative securities), as well as commercial banks, insurance and securities companies, mutual and pension funds markets. This course also covers financial markets risks and regulations.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 431 - Tech Analysis of Stock Trends

3 Credit(s)

Advanced studies in technical market analysis and trading, money management, investor psychology and analysis elements are considered. The Focus will be on the study of price action in trading markets, patterns and trends, price behavior of financial securities, trading tactics, and construction of a trading or investment model. The course will help students prepare for the Chartered Market Technician (CMT) designation.

Prerequisite(s):

BUS 373 Minimum Grade: C- OR T

BUS 432 - Series 7 General Securities Exam Review

3 Credit(s)

The Series 7 License Exam Review course is designed to prepare the student to take the National Association of Securities Dealers General Securities Representative Exam. After passing the Series 7 License exam the candidate can be licensed to sell various types of securities.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

AND

BUS 373 Minimum Grade: C- OR T

Plus 6 Credits of any Business or Economics Courses

Bachelor of Science in Business Administration, Economics Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Economics Emphasis

ECON 360 - Natural Resource Economics

3 Credit(s)

This course studies the usage of natural resources in the economy, the value of natural resources to society, and the allocation of renewable and nonrenewable resources. The course introduces economic theories for efficient management of natural resources and considers sustainability, conservation, and preservation. The course will consider resources, such as water, on a local scale as well as a global scale.

ECON 365 - Political Economy

3 Credit(s)

This course offers a critical introduction to the central ideas used by Political Economists to understand the structure, social meaning, and historical development of capitalist economies. Lectures draw on competing traditions in Political Economy to provide a critical appreciation of the defining socio-economic relationships of capitalism, including wages, productivity, profits, inequality, prices, entrepreneurship, markets, capitalism, growth, crises, recessions, socialism, etc. While these discussions necessarily involve economic theory, the overall emphasis is on how an analytically diverse understanding of these relationships can open up unique, critical perspectives into the problems of contemporary capitalism.

ECON 370 - Economics of Crises

3 Credit(s)

This course studies the nature of economic crises in capitalism. The course will explore theories of crises such as

supply-side, demand-side, and financial crises. We will analyze the social consequences of crises as well as the policies implemented.

ECON 425 - Economic Policy

3 Credit(s)

Study of the structure and functions of the U.S. economic system and the use of monetary, fiscal, and other policies to stabilize the economy. Emphasis on historical roots and the evolution into new behavioral economic ideas as well as the complex interplay of policy and economic forces.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

ECON 433 - Managerial Economics

3 Credit(s)

Application and integration of microeconomic theory and the tools of decision science to managerial decision-making. Particular emphasis placed on the economic differences caused by monopolies, cartels, and multi-national organizations and their domination of many industries. Understanding of game theory and new economic analysis tools.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

HCA 455 - Health Care Economics

3 Credit(s)

This course will examine health care decision-making and the functioning of health care markets in the U.S. The course is not designed as a pure economics theory course but instead emphasizes how you can frame and analyze various health issues using the principles of economics. By doing so, you will gain a powerful new perspective that will help you understand the decisions made by individuals and organizations in the face of scarce resources. Instructor

permission.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

BUS 498 - World Food Distribution/Agricultural Economics

3 Credit(s)

Knowledge and application of economic concepts to the sectors of agriculture including microeconomic and macroeconomic relationships, world markets, and trade.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T
AND

BUS 105 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

A Minimum of 12 Credits from the Following

BUS 307 - Managerial Cost Accounting I

3 Credit(s)

Principles and methods of recording and interpreting cost data. Major emphasis on developing accounting information for planning, control, and decision making.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 320 - Bus Computer Applications II

3 Credit(s)

The focus of this course is to explore application software on a comprehensive level to gain expertise to support decision-making and manage information. Study includes intermediate Word and Excel applications; intermediate to

advanced PowerPoint; intermediate Access, integration of Office applications, and an introduction to HTML and building web pages.

Prerequisite(s):

BUS 120 Minimum Grade: C- OR T

BUS 355 - Individual Income Taxation

4 Credit(s)

This course involves the study of federal income tax on individual and property transactions. Objectives of taxation are given major emphasis. The Internal Revenue Code is discussed in addition to textbook material in order to acquaint the student with the ultimate source of tax law. Income tax return problems and tax cases may be assigned to provide practical application of the tax law.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

BUS 373 - Investment Analysis

3 Credit(s)

BUS 318 recommended. The course is a study of personal investment planning, traditional and alternative investment vehicles, investment media, investment strategy, and portfolio analysis. The student will become familiar with both money market and capital investment markets as well as strategies for assessing returns and risks of various security instruments.

Prerequisite(s):

BUS 208 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

BUS 378 - Commodities/Risk Management

3 Credit(s)

The goal of this course is to provide students with knowledge of risk management for agricultural endeavors as well as practical knowledge of how the futures and options markets work, how to manage risk involved in agriculture production or operation, and various tools available to manage specific situations. BUS 103 Introduction to Business or instructor consent. BUS 105 Introduction to Agribusiness or instructor consent. BUS 318 Principles of Management or instructor consent.

Prerequisite(s):

BUS 103 Minimum Grade: D OR T

AND

BUS 105 Minimum Grade: D OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 383 - International Financial Management

3 Credit(s)

A comprehensive study of international financial markets that covers currency exchange mechanisms in theory and practice. In line with the rapid globalization of the economy, the goal of this course is to analyze the international financial environment and how managers function in this increasingly uncertain global environment. The course will focus on three main areas of international finance: international financial environment, exchange rate behavior, and exchange risk management.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 414 - Commercial Banking

3 Credit(s)

Bank Management is an in-depth study of banking institutions, with special emphasis on commercial banks and their connection to the Federal Reserve System and other financial institutions. A risk management perspective is adopted, and the fast changing global regulatory and financial environments are discussed. A Uniform Bank Performance Report will be analyzed.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 416 - Business Financial Problems

3 Credit(s)

Emphasis on financial decision-making within the firm using case studies as the primary activity. Topics include financial goals and strategy, financial analysis and forecasting, capital budgeting, capital structure decisions, dividend policy, and firm valuation.

Prerequisite(s):

BUS 363 Minimum Grade: C- OR T

BUS 466 - Business Ethics Decision Making

3 Credit(s)

This course explores various ethical issues facing business leaders in modern society. Students will utilize current issues to analyze ethical dilemmas and decision-making processes common to modern organizations. Emphasizes critical thinking, critical reading, and the importance of professional ethics.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

Bachelor of Science in Business Administration, Entrepreneurship Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Entrepreneurship Emphasis

BUS 315 - Sales and Sales Management

3 Credit(s)

This course is designed to introduce students to management techniques as they relate specifically to the marketing and sales area. Topics covered include: the selling process, compensation systems, motivation and leadership, time and territory management, sales forecasting, quotas, and evaluating the sales force.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 362 - Human Resource Management

3 Credit(s)

Analysis of techniques used to organize, motivate, and manage personnel in public or private organizations. Includes case studies and examines current literature and the current legal environment..

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial

plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

BUS 448 - Interactive/Social Media Marketing

3 Credit(s)

This course focuses on relationship marketing, interactive marketing, integration of consumer data, Internet marketing (E-commerce), media advertising, catalogs, mailing lists, telemarketing, and the use of direct marketing techniques to replace or enhance the traditional marketing methods of retail and direct sales.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 466 - Business Ethics Decision Making

3 Credit(s)

This course explores various ethical issues facing business leaders in modern society. Students will utilize current issues to analyze ethical dilemmas and decision-making processes common to modern organizations. Emphasizes critical thinking, critical reading, and the importance of professional ethics.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 467 - Creativity and Innovation

3 Credit(s)

Course objectives are to develop skills in generating new and original ideas, increase ability to convert ideas into action and success, and increase knowledge and skill in creative problem solving as applied to business scenarios.

Prerequisite(s):

BUS 361 Minimum Grade: C-

BUS 468 - New Business Venturing

3 Credit(s)

This course introduces students to starting and operating a business. Students will be exposed to how business interacts

with government, financial institutions, and society. This course will examine and study the process, challenges, risks, and rewards of starting up a new business. The student will be equipped with tools required to start their own business.

Prerequisite(s):

BUS 365 Minimum Grade: C-

Plus 6 Credits of 300- to 400-level business or economics courses approved by the student's advisor

Bachelor of Science in Business Administration, General Business Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T
AND

BUS 304 Minimum Grade: C- OR T
AND

BUS 361 Minimum Grade: C- OR T
AND

BUS 363 Minimum Grade: C- OR T
AND

ECON 255 Minimum Grade: C- OR T
AND

ECON 256 Minimum Grade: C- OR T

Plus 30 credits from 300- to 400-level business, economics, or health care administration courses

Bachelor of Science in Business Administration, Health Care Administration Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Health Care Administration Emphasis

HCA 303 - Trends and Issues in Health Care

3 Credit(s)

This course is an introductory Health Care Administration course and will expose the student to the industry and its significant elements and trends of the current health care environment.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

HCA 305 - Health Care Marketing

3 Credit(s)

This course involves an analysis, evaluation, and implementation of marketing strategies within health care and managed-care environments. Designed to develop skills in segmenting customer and medical markets, brand products and services, enhance a communication strategy to the consumer, and develop pricing approaches. Methods and models of marketing fundamentals will be introduced.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 311 - Health Care Law and Ethics

3 Credit(s)

This course presents an overview of the legal and ethical issues faced by health care consumers, practitioners, and administrators. The course will introduce students to the legal aspects of health care at the federal, state, and local levels. Topics covered will include criminal and civil claims against health care providers, corporate and individual liability, and legal and ethical decision-making, individual liability, and legal and ethical decision-making. HCA 361 Health Care Administration. Instructor permission.

Prerequisite(s):

BUS 211 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 312 - Health Care Med Terminology

3 Credit(s)

This course will focus on the components of medical terms and the methods for analysis of word definitions. The emphasis will be on learning to define, pronounce, and spell medical terms using prefixes, suffixes, roots, and combining forms related to the anatomy and physiology of the human body. The course will include an introduction to operative, diagnostic, therapeutic, and symptomatic terminology of all body systems.

HCA 325 - Health Care Informatics

3 Credit(s)

This course is a study of record keeping practices in the hospital and physician's office. Emphasis is placed in hospital and medical staff organization, patient record content, procedures in filing, numbering and retention of patient records, quantitative analysis, release of patient information, forms control and design, indexes and registers, reimbursement, regulatory and accrediting agencies, and alternate health care delivery systems. Instructor permission required.

Prerequisite(s):

BUS 120 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

BUS 362 - Human Resource Management

3 Credit(s)

Analysis of techniques used to organize, motivate, and manage personnel in public or private organizations. Includes case studies and examines current literature and the current legal environment..

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

HCA 363 - Health Care Finance

3 Credit(s)

This course is devoted to the practical aspects of finance in health care, an examination of current practices in financial management of health care organizations, and managerial applications to specific problems facing health care managers. The first part of the course will focus on an overview of health care finance, managerial accounting, and financial analysis. The second part will continue with managerial accounting and financial analysis and will concentrate on the various tools used in financial management. Emphasis is placed on unique issues and concerns that result from the regulatory framework of health care organizations. At the conclusion of this course, the student should be able to discuss the financial structure, market forces, controls and techniques used in the health care management field, be able to read and analyze financial statements and budgets and have the skill to interpret financial and operating performance.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

HCA 402 - Public and Population Health

3 Credit(s)

This course consists of an examination of epidemiological concepts and methods of studying the distribution and determinants of morbidity and mortality in human population. The knowledge and skills acquired should enable one to understand and critically review scientific literature dealing with epidemiology concepts and measures. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 455 - Health Care Economics

3 Credit(s)

This course will examine health care decision-making and the functioning of health care markets in the U.S. The course is not designed as a pure economics theory course but instead emphasizes how you can frame and analyze various health issues using the principles of economics. By doing so, you will gain a powerful new perspective that will help you understand the decisions made by individuals and organizations in the face of scarce resources. Instructor permission.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 462 - Quality Management in Health Care

3 Credit(s)

Quality is an important aspect of health care; indeed, for most people, it is the most important aspect. Quality is defined in the dictionary as "degree of excellence" or "superiority in kind." Quality of care must be part of both the process and outcome of health care whenever possible. The issue is how does the system develop mechanisms to assure such quality? This course serves as an introduction to the process of quality management in health care organizations. Principles of total quality in health care will be discussed. Differentiation between quality assurance and quality management will also be presented. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 480 - Health Care Policy

3 Credit(s)

This course is an introduction to health policy. It will focus on how U.S. health policy is developed and will provide students with a general understanding of the policy making process and debates related major U.S. health care legislations.

Prerequisite(s):

HCA 303 Minimum Grade: C- OR T
AND

HCA 305 Minimum Grade: C- OR T

AND

HCA 363 Minimum Grade: C- OR T

Bachelor of Science in Business Administration, Management Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Management Emphasis

BUS 362 - Human Resource Management

3 Credit(s)

Analysis of techniques used to organize, motivate, and manage personnel in public or private organizations. Includes case studies and examines current literature and the current legal environment..

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 365 - Small Business Management/Entrepreneurship

3 Credit(s)

This course presents the techniques and information necessary to create a comprehensive business plan for an entrepreneurial idea. Coursework addresses feasibility analysis, management, marketing, technology, and financial plans, culminating in presentation of a viable business plan.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

BUS 401 - Organizational Behavior

3 Credit(s)

Participants in the course will explore the theory of human relations in organizations. The emphasis will be on the application of behavioral science knowledge to contemporary organizational issues, which may include individual and group dynamics, motivation, leadership, organizational change, and development.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 418 - Leadership Strategies

3 Credit(s)

This course presents contemporary theories and approaches to leadership practices in modern organizations. Students learn how effective leadership can assist in the creation of a strong organizational culture and the implications external forces have on individual leadership development and continued growth.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 419 - Organizational Change/Develop

3 Credit(s)

The study of planned and unplanned change in organizations to include diagnosis, planning, and implementation of organizational change initiatives. Emphasis is on teamwork within organizations and survey development.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 466 - Business Ethics Decision Making

3 Credit(s)

This course explores various ethical issues facing business leaders in modern society. Students will utilize current issues to analyze ethical dilemmas and decision-making processes common to modern organizations. Emphasizes critical thinking, critical reading, and the importance of professional ethics.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

Plus 3 Credits from the following

ECON 425 - Economic Policy

3 Credit(s)

Study of the structure and functions of the U.S. economic system and the use of monetary, fiscal, and other policies to stabilize the economy. Emphasis on historical roots and the evolution into new behavioral economic ideas as well as the complex interplay of policy and economic forces.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

ECON 433 - Managerial Economics

3 Credit(s)

Application and integration of microeconomic theory and the tools of decision science to managerial decision-making. Particular emphasis placed on the economic differences caused by monopolies, cartels, and multi-national organizations and their domination of many industries. Understanding of game theory and new economic analysis tools.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

Plus 6 Credits of of 300 to 400 level business or economics courses approved by the student's advisor

Bachelor of Science in Business Administration, Marketing Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

Prerequisite(s):

ENG 101 Minimum Grade: C- OR T

BUS 304 - Principles of Marketing

3 Credit(s)

Description and analysis of the marketing mix variables (Price, Place, Product, Promotion). Study of the various institutions involved in marketing. Emphasis on the methods available to marketers for building long-term relationships with customers. The importance of a customer perspective is stressed.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
OR

MATH 106 Minimum Grade: C- OR T

OR

MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Marketing Emphasis

BUS 315 - Sales and Sales Management

3 Credit(s)

This course is designed to introduce students to management techniques as they relate specifically to the marketing and sales area. Topics covered include: the selling process, compensation systems, motivation and leadership, time and territory management, sales forecasting, quotas, and evaluating the sales force.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 335 - Consumer Behavior

3 Credit(s)

Study of consumer behavior as it relates to the marketing functions. Emphasis on the models of consumer behavior and their application to practical marketing problems.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 345 - Advertising

3 Credit(s)

Discusses the history, purposes, and regulations of the advertising industry. Topics covered include creative principles, media advantages and disadvantages, media planning, regulation of advertising, and coordination with other promotion activities.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 448 - Interactive/Social Media Marketing

3 Credit(s)

This course focuses on relationship marketing, interactive marketing, integration of consumer data, Internet marketing (E-commerce), media advertising, catalogs, mailing lists, telemarketing, and the use of direct marketing techniques to replace or enhance the traditional marketing methods of retail and direct sales.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 454 - Market Research & Information

3 Credit(s)

Study of the theory and methods used in marketing research to address marketing problems. May include the completion of a research project where students learn by performing a research project from problem formulation to writing a research report. Also prepares the students for evaluating research performed by others.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

BUS 460 - Marketing Management

3 Credit(s)

Twelve hours of marketing courses and senior status required. Capstone course in marketing. Study of the problems faced by marketing managers as they make decisions and develop policies.

Prerequisite(s):

BUS 454 Minimum Grade: C- OR T

Plus any 3 Courses from the Following

BUS 356 - Retailing

3 Credit(s)

Study of marketing and management problems faced in the operation of a retail business. Emphasis is given to techniques for solving problems in location, management, and merchandising, especially with the integration of Internet retailing (E-Tailing) as both a competitor and an extension of the storefront business.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 385 - Sports Marketing

3 Credit(s)

Illustrates the dynamic, progressive and influential nature of sports marketing. Explores the sport marketing concept as a consumer-driven, integrated, goal-oriented philosophy for a team, event, organization or athlete. Topics covered include: athletic endorsements, team sports, event sponsorships and alternative sports.

BUS 441 - International Marketing

3 Credit(s)

Analysis of opportunities, distinctive characteristics, and emerging trends in foreign markets, including exploration of alternative methods and strategies for entering foreign markets; organizational planning and control; impact of social, cultural, economic, and political differences; and problems of adapting American marketing concepts and methods. This is accomplished through real life planning and implementation of an international marketing plan designed to market a product or service in a foreign country or countries

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

BUS 449 - Marketing in the 21st Century

3 Credit(s)

This course provides the practical tools and strategies required to successfully leverage social networks, capitalize on their powerful word-of-mouth lift, and how to measure these interactive marketing efforts. These tools will be used on an actual social media marketing campaign for a business or non-profit entity. Current and future marketing tools will be discussed and evaluated.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T

AND

BUS 448 Minimum Grade: C- OR T

HCA 305 - Health Care Marketing

3 Credit(s)

This course involves an analysis, evaluation, and implementation of marketing strategies within health care and managed-care environments. Designed to develop skills in segmenting customer and medical markets, brand products and services, enhance a communication strategy to the consumer, and develop pricing approaches. Methods and models

of marketing fundamentals will be introduced.

Prerequisite(s):

BUS 304 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

Bachelor of Science in Business Administration, Systemic Change and Communities Emphasis

Business Administration Required Courses

BUS 103 - Introduction to Business

3 Credit(s)

An overview of business and economics for the non-major, and a first step for all business majors. The course both defines and applies the fundamental principles of economics, management, marketing, management information systems (MIS), accounting and finance, including personal finance.

BUS 120 - Bus Computer Applications I

3 Credit(s)

The focus of this course is to provide first and second year students with the computer and information system skills to support computer requirements for the School of Business program and meet essential business career demands. The course will cover an introduction to computers and information system technologies. In addition, the goal of the course is to learn basic skills in the Windows operating system, Internet essentials, and Microsoft Office.

BUS 207 - Principles of Accounting I

3 Credit(s)

Course begins with necessary bookkeeping skills for recording simple financial transactions and preparing basic financial statements. Theory behind accounting rules is emphasized so the student can apply knowledge gained to ever changing real-world situations.

BUS 208 - Principles of Accounting II

3 Credit(s)

Continuation of BUS 207. Covers accounting for capital provided through the partnership and corporate forms of business enterprise. At the conclusion of this course, the student will be able to read and interpret the three principal financial statements: the income statement, balance sheet, and statement of changes in financial position. Topics related to managerial accounting also covered.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T

BUS 211 - Business Law

3 Credit(s)

Study of the legal principles pertaining to contracts, agency, negotiable instruments, corporations, partnerships, and government regulations. Research of actual cases is required.

ECON 255 - Macroeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the national economy and macroeconomic principles: including opportunity cost, production possibility curve, demand and supply, fiscal and monetary policy, market failures, and the workings of the market system. Analysis of the changes in economic policies from a now globalized economy

ECON 256 - Microeconomics Principles GT-SS1

3 Credit(s)

Detailed understanding of the micro approach to the workings of the market system focusing on the individual and the firm and the economic tools needed to operate efficiently.

BUS 265 - Business Communications

3 Credit(s)

Emphasizes advanced business writing, verbal and non-verbal expression and communication, and presentation skills for contemporary business environments. This course explores the communication process used to strengthen personal and thus business relationships by preparing specific forms of business communication. Team communication, ethical communication, and multi-cultural communication are discussed in this course.

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Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

BUS 318 - Business Statistics

3 Credit(s)

Provides a basic understanding of the fundamental principles with emphasis on the application of statistical techniques to the analysis and solution of real business problems.

Prerequisite(s):

MATH 104 Minimum Grade: C- OR T
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MATH 106 Minimum Grade: C- OR T

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MATH 107 Minimum Grade: C- OR T

OR

MATH 120 Minimum Grade: C- OR T

BUS 361 - Principles of Management

3 to 4 Credit(s)

Explores theory and practice of managing an organization and its personnel with emphasis on planning, designing, and controlling to meet the needs of modern public or private organizations. Includes emerging trends and international issues.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 430 - Production and Operations Mgmt

3 Credit(s)

Application of managerial decision making and quantitative analysis techniques. Covers forecasting, inventory models, utilization profiles, bottleneck analysis, wait time analysis, and revenue management models. Focus on the Toyota Production System and lean production by conduction process analysis and capacity planning, design of work systems, location planning, quality control, scheduling, and project management

Prerequisite(s):

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AND

MATH 104 Minimum Grade: C- OR T

BUS 480 - Global Business Strategies

3 Credit(s)

Senior status required. Designed to help students understand planning activities, determination of alternatives, policy formulation, execution of plans and development of corporate company strategy as currently used by business enterprises. Involves extensive case study.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

BUS 208 Minimum Grade: C- OR T

AND

BUS 304 Minimum Grade: C- OR T

AND

BUS 361 Minimum Grade: C- OR T

AND

BUS 363 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

Systemic Change and Communities Emphasis

24 credits from the following (8 Classes) is Required

BUS 316 - Public and Nonprofit Mgmt

3 Credit(s)

This course is designed to examine public and nonprofit management. This type of management is driven by mission and/or executive/legislative directions. It is not about the bottom line or profit. Students will learn both the theory and practice of public and nonprofit management, using the concept case method and service learning opportunities.

BUS 363 - Managerial Finance

3 Credit(s)

A comprehensive study of the field of finance, covering institutions, financial markets, investments, and financial theory and techniques relating to financial decisions in business. Topics include risk and rates of return, time value of money, stocks and bonds characteristics and valuation, cost of capital, capital budgeting techniques, dividend policy, analysis of financial statements, and working capital policy.

Co-requisite(s): BUS 208 BUS 318 ECON 255 ECON 256

BUS 419 - Organizational Change/Develop

3 Credit(s)

The study of planned and unplanned change in organizations to include diagnosis, planning, and implementation of organizational change initiatives. Emphasis is on teamwork within organizations and survey development.

Prerequisite(s):

BUS 361 Minimum Grade: C- OR T

BUS 488 - Agricultural Policy and Farm Bill

3 Credit(s)

Development and implementation of public policy in agriculture, implications of international competition and trade, and development and interpretation of argument in policy development.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

BUS 318 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

BUS 498 - World Food Distribution/Agricultural Economics

3 Credit(s)

Knowledge and application of economic concepts to the sectors of agriculture including microeconomic and macroeconomic relationships, world markets, and trade.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

AND

BUS 105 Minimum Grade: C- OR T

AND

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

ECON 360 - Natural Resource Economics

3 Credit(s)

This course studies the usage of natural resources in the economy, the value of natural resources to society, and the allocation of renewable and nonrenewable resources. The course introduces economic theories for efficient management of natural resources and considers sustainability, conservation, and preservation. The course will consider resources, such as water, on a local scale as well as a global scale.

ECON 365 - Political Economy

3 Credit(s)

This course offers a critical introduction to the central ideas used by Political Economists to understand the structure, social meaning, and historical development of capitalist economies. Lectures draw on competing traditions in Political Economy to provide a critical appreciation of the defining socio-economic relationships of capitalism, including wages, productivity, profits, inequality, prices, entrepreneurship, markets, capitalism, growth, crises, recessions, socialism, etc. While these discussions necessarily involve economic theory, the overall emphasis is on how an analytically diverse understanding of these relationships can open up unique, critical perspectives into the problems of contemporary capitalism.

ECON 370 - Economics of Crises

3 Credit(s)

This course studies the nature of economic crises in capitalism. The course will explore theories of crises such as supply-side, demand-side, and financial crises. We will analyze the social consequences of crises as well as the policies implemented.

ECON 425 - Economic Policy

3 Credit(s)

Study of the structure and functions of the U.S. economic system and the use of monetary, fiscal, and other policies to stabilize the economy. Emphasis on historical roots and the evolution into new behavioral economic ideas as well as the complex interplay of policy and economic forces.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

AND

MATH 104 Minimum Grade: C- OR T

OR

MATH 106 Minimum Grade: C- OR T

HCA 402 - Public and Population Health

3 Credit(s)

This course consists of an examination of epidemiological concepts and methods of studying the distribution and determinants of morbidity and mortality in human population. The knowledge and skills acquired should enable one to understand and critically review scientific literature dealing with epidemiology concepts and measures. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 455 - Health Care Economics

3 Credit(s)

This course will examine health care decision-making and the functioning of health care markets in the U.S. The course is not designed as a pure economics theory course but instead emphasizes how you can frame and analyze various health issues using the principles of economics. By doing so, you will gain a powerful new perspective that will help you understand the decisions made by individuals and organizations in the face of scarce resources. Instructor permission.

Prerequisite(s):

ECON 255 Minimum Grade: C- OR T

AND

ECON 256 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 462 - Quality Management in Health Care

3 Credit(s)

Quality is an important aspect of health care; indeed, for most people, it is the most important aspect. Quality is defined in the dictionary as "degree of excellence" or "superiority in kind." Quality of care must be part of both the process and outcome of health care whenever possible. The issue is how does the system develop mechanisms to assure such quality? This course serves as an introduction to the process of quality management in health care organizations. Principles of total quality in health care will be discussed. Differentiation between quality assurance and quality management will also be presented. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

Plus 12 hours of upper level courses as determined in consultation with your advisor

Health Administration Certificate (Undergraduate)

Go to: Business

Courses (16 credits total)

HCA 303 - Trends and Issues in Health Care

3 Credit(s)

This course is an introductory Health Care Administration course and will expose the student to the industry and its significant elements and trends of the current health care environment.

Prerequisite(s):

BUS 103 Minimum Grade: C- OR T

HCA 311 - Health Care Law and Ethics

3 Credit(s)

This course presents an overview of the legal and ethical issues faced by health care consumers, practitioners, and administrators. The course will introduce students to the legal aspects of health care at the federal, state, and local levels. Topics covered will include criminal and civil claims against health care providers, corporate and individual liability, and legal and ethical decision-making, individual liability, and legal and ethical decision-making. HCA 361 Health Care Administration. Instructor permission.

Prerequisite(s):

BUS 211 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 325 - Health Care Informatics

3 Credit(s)

This course is a study of record keeping practices in the hospital and physician's office. Emphasis is placed in hospital and medical staff organization, patient record content, procedures in filing, numbering and retention of patient records, quantitative analysis, release of patient information, forms control and design, indexes and registers, reimbursement, regulatory and accrediting agencies, and alternate health care delivery systems. Instructor permission required.

Prerequisite(s):

BUS 120 Minimum Grade: C- OR T

AND

HCA 303 Minimum Grade: C- OR T

HCA 363 - Health Care Finance

3 Credit(s)

This course is devoted to the practical aspects of finance in health care, an examination of current practices in financial management of health care organizations, and managerial applications to specific problems facing health care managers. The first part of the course will focus on an overview of health care finance, managerial accounting, and financial analysis. The second part will continue with managerial accounting and financial analysis and will concentrate on the various tools used in financial management. Emphasis is placed on unique issues and concerns that result from the regulatory framework of health care organizations. At the conclusion of this course, the student should be able to discuss the financial structure, market forces, controls and techniques used in the health care management field, be able to read and analyze financial statements and budgets and have the skill to interpret financial and operating performance.

Prerequisite(s):

BUS 207 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

HCA 402 - Public and Population Health

3 Credit(s)

This course consists of an examination of epidemiological concepts and methods of studying the distribution and determinants of morbidity and mortality in human population. The knowledge and skills acquired should enable one to understand and critically review scientific literature dealing with epidemiology concepts and measures. Instructor permission.

Prerequisite(s):

BUS 318 Minimum Grade: C- OR T
AND

HCA 303 Minimum Grade: C- OR T

BUS 179 - Special Topics

1 to 3 Credit(s)

Offered periodically to meet student special interests in the field.

Master of Business Administration, Finance Emphasis

Master of Business Administration

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The online M.B.A. curriculum is well suited for people with either business or non-business undergraduate degrees. You'll spend six continuous semesters, or two years, learning key business, health administration, leadership, and public administration concepts to make you more effective in your current job or to open new employment opportunities.

The online M.B.A. curriculum offers a level of quality and rigor consistent with Adams State's reputation for excellence as an educational institution. The distance M.B.A. program welcomes students from around the globe.

Master of Business Administration Core Requirements

BUS 500 - Leadership Skills for Managers

3 Credit(s)

This course teaches practical skills required for effective management at all levels of an organization, and is designed to increase a learner's understanding of key concepts and procedural guidelines related to organizational management, human resource, and leadership. The purpose is to be equipped to deal effectively with managerial challenges dealing with people.

BUS 505 - Creating Consumer Value

3 Credit(s)

This course presents learners with a comprehensive approach to creating consumer value. This includes marketing and brand management in for-profit firms as well as identifying and meeting consumer needs in non-profit and governmental organizations. Topics include segmentation and targeting of consumers; the positioning levers of product, price, promotion, and distribution; and brand management.

ECON 505 - Managerial Economics

3 Credit(s)

This course demonstrates how economics theory is applied to national and international managerial decision-making. The course covers topics such as demand analysis, production and cost functions, market structure, managerial understanding of public policy, and international trade finance topics. Pre-req.-Undergraduate Economics course with a grade of C or higher.

BUS 520 - Managerial Accounting

3 Credit(s)

This course provides a review of financial reporting standards and statements and analysis of those financial statements. Managerial accounting principles will be explored as well as budgeting, cost allocation, accumulation, cost behavior, and relevant costs; revenues are approached from a managers' perspective. Prerequisite: undergraduate accounting course with a grade of C or higher.

BUS 525 - Financial Analysis

3 Credit(s)

Students will embark on studying basic financial principles and enhance that with understanding various valuation

concepts and methods. Emphasis is also placed on capital budgeting and long term financing as well as working capital management. The course will blend time-tested finance principles and the latest advancements with the practical perspectives of the financial manager. Prerequisite: undergraduate accounting course with a grade of C or higher.

Prerequisite(s):

BUS 520 Minimum Grade: C

BUS 540 - Strategy

3 Credit(s)

In this course, learners examine tools and techniques for competitive analysis, strategic planning, and strategy implementation. Learners gain knowledge of the tools and concepts needed to develop a business strategy including macro environmental scanning, industry and competitive analysis, value chain analysis, SWOT analysis, identification of critical success factors and driving forces, and development of strategic alternatives and recommendations.

Finance Emphasis

BUS 531 - Multinational Financial Management

3 Credit(s)

Multinational Financial Management course has two emphases: one on the basics and the other on a managerial perspective. As international capital markets of the world become more integrated, an understanding of international financial management has become important for U.S. corporate decision making. This course provides students with groundwork for analysis that will serve them well in their future careers. The decision-making process in this course will teach students how to make knowledgeable managerial decisions in an ever changing global financial setting.

Prerequisite(s):

BUS 525 Minimum Grade: B-

BUS 532 - Portfolio Management and Investment Analysis

3 Credit(s)

The unifying theme of this course is that security markets are almost efficient, meaning that most securities are priced appropriately given their risk and return attributes. The course is a blend of practical and theoretical coverage combined with a complete digital solution to focus on making investment decisions from the perspective of the portfolio manager. This course also covers the Series 7 License and is designed to prepare the student for taking the National Association of Securities Dealers General Securities Representative Exam.

Prerequisite(s):

BUS 525 Minimum Grade: B-

BUS 533 - Financial Markets and Institutions

3 Credit(s)

This course is a great reflection of the latest developments from the field of financial markets. It helps students understand why financial markets exist, how financial institutions serve these markets, and what services those institutions offer. The course also focuses on the management, performance, and regulatory aspects of financial

institutions and explores the functions of the Federal Reserve System, as well as the major debt and equity security markets, and derivative security market.

Prerequisite(s):

BUS 525 Minimum Grade: B-

BUS 534 - Finance Capstone

3 Credit(s)

This course uses a case study approach to solve complicated corporate problems and links managerial decisions to capital markets and the expectations of investors. Students will gain a deeper understanding of financial issues that they encounter in their professional career. At the core of the cases is a valuation task that requires students to look to financial markets for guidance in resolving the case problem. The focus on value helps the students understand the impact of the firm on the world around it.

Prerequisite(s):

BUS 525 Minimum Grade: B-
AND

BUS 531 Minimum Grade: B-
AND

BUS 532 Minimum Grade: B-
AND

BUS 533 Minimum Grade: B-

Master of Business Administration, Healthcare Emphasis

Go to: [Business](#)

Master of Business Administration

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Master of Business Administration Core Requirements

BUS 500 - Leadership Skills for Managers

3 Credit(s)

This course teaches practical skills required for effective management at all levels of an organization, and is designed to increase a learner's understanding of key concepts and procedural guidelines related to organizational management, human resource, and leadership. The purpose is to be equipped to deal effectively with managerial challenges dealing with people.

BUS 505 - Creating Consumer Value

3 Credit(s)

This course presents learners with a comprehensive approach to creating consumer value. This includes marketing and brand management in for-profit firms as well as identifying and meeting consumer needs in non-profit and governmental organizations. Topics include segmentation and targeting of consumers; the positioning levers of product, price, promotion, and distribution; and brand management.

ECON 505 - Managerial Economics

3 Credit(s)

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BUS 525 - Financial Analysis

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Students will embark on studying basic financial principles and enhance that with understanding various valuation concepts and methods. Emphasis is also placed on capital budgeting and long term financing as well as working capital management. The course will blend time-tested finance principles and the latest advancements with the practical perspectives of the financial manager. Prerequisite: undergraduate accounting course with a grade of C or higher.

Prerequisite(s):

BUS 520 Minimum Grade: C

BUS 540 - Strategy

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In this course, learners examine tools and techniques for competitive analysis, strategic planning, and strategy implementation. Learners gain knowledge of the tools and concepts needed to develop a business strategy including macro environmental scanning, industry and competitive analysis, value chain analysis, SWOT analysis, identification of critical success factors and driving forces, and development of strategic alternatives and recommendations.

Healthcare Emphasis

HCA 545 - Public Health

3 Credit(s)

This course provides a comprehensive coverage of traditional public health responsibilities- assessing the burden of disease, preventing and controlling health threats, and developing policies and public administration responses to improve health --in a contemporary framework. It covers the basics of administration, including public health law, human resources management, budgeting and financing, and legislative relations in public health.

HCA 550 - Elderly and Managed Care

3 Credit(s)

This course will consider long-term service delivery programs designed to meet the special needs of seniors. The course will include a managerial overview of seniors' housing and care and will analyze the demographics of aging, the role of financing, and the evolving marketplace.

HCA 555 - Health Policy

3 Credit(s)

Critical analysis of federal and state health policy processes, outcomes, and issues. This course allows students to examine the efficiency and effectiveness of health policy issues associated with access, cost, and quality. Emphasis is placed on policy formulation, implementation, assessment, and modification.

Prerequisite(s):

HCA 303 Minimum Grade: C

HCA 590 - Practicum

3 Credit(s)

The MHA Practicum: executive skill development is designed to develop and enhance the skills necessary for success as a healthcare executive through management practice in health care administration. The course provides the students the opportunity to gain practical experience and integrate classroom knowledge and theory in an administrative setting within the health care industry.

OR

HCA 595 - HCA Thesis

3 Credit(s)

The research project serves as a capstone experience as students complete the MBA emphasis area of study. Students will complete a research project involving an introduction to the problem or research question, comprehensive in-depth review of the current literature, research methodology, data collection, and analysis if applicable, and conclusions.

Prerequisite(s):

BUS 515 Minimum Grade: C

Master of Business Administration, Leadership Emphasis

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BUS 505 - Creating Consumer Value

3 Credit(s)

This course presents learners with a comprehensive approach to creating consumer value. This includes marketing and brand management in for-profit firms as well as identifying and meeting consumer needs in non-profit and governmental organizations. Topics include segmentation and targeting of consumers; the positioning levers of product, price, promotion, and distribution; and brand management.

ECON 505 - Managerial Economics

3 Credit(s)

This course demonstrates how economics theory is applied to national and international managerial decision-making. The course covers topics such as demand analysis, production and cost functions, market structure, managerial understanding of public policy, and international trade finance topics. Pre-req.-Undergraduate Economics course with a grade of C or higher.

BUS 520 - Managerial Accounting

3 Credit(s)

This course provides a review of financial reporting standards and statements and analysis of those financial statements. Managerial accounting principles will be explored as well as budgeting, cost allocation, accumulation, cost behavior, and relevant costs; revenues are approached from a managers' perspective. Prerequisite: undergraduate accounting course with a grade of C or higher.

BUS 525 - Financial Analysis

3 Credit(s)

Students will embark on studying basic financial principles and enhance that with understanding various valuation concepts and methods. Emphasis is also placed on capital budgeting and long term financing as well as working capital management. The course will blend time-tested finance principles and the latest advancements with the practical perspectives of the financial manager. Prerequisite: undergraduate accounting course with a grade of C or higher.

Prerequisite(s):

BUS 520 Minimum Grade: C

BUS 540 - Strategy

3 Credit(s)

In this course, learners examine tools and techniques for competitive analysis, strategic planning, and strategy implementation. Learners gain knowledge of the tools and concepts needed to develop a business strategy including macro environmental scanning, industry and competitive analysis, value chain analysis, SWOT analysis, identification of critical success factors and driving forces, and development of strategic alternatives and recommendations.

Leadership Emphasis

BUS 545 - Leading Entrepreneurial Organizations

3 Credit(s)

Successful organizations emphasize learning to sustain their competitive advantage. This course will study entrepreneurship and intrapreneurship. Areas of emphasis include uncovering the methodologies and characteristics that foster innovations and achieve meaningful change in business that leads to the creation and implementation of profitable business opportunities.

BUS 550 - Technology and Innovation

3 Credit(s)

This course adopts the perspective of a general manager-- an individual charged with diagnosing complex situations and resolving them in ways that enhance organizational performance. The course emphasizes how general management decisions may contribute to the creation and appropriation of economic value through innovation.

BUS 555 - Leading for Results

3 Credit(s)

This course focuses on how leaders mobilize others within their organization to get extraordinary things done. You will analyze what characteristics you need to develop to achieve your own professional goals and reflect on ways you can develop your competencies as a leader.

BUS 560 - Leadership Capstone

3 Credit(s)

This capstone course integrates knowledge gained in the previous graduate business courses. It centers on the theme that organizations achieve sustained success when their managers have astute, timely, strategic game plans, and they implement these plans with proficiency. This class incorporates the "big picture" and cuts across the whole spectrum of business and leadership.

Master of Business Administration, Public Administration Emphasis

Master of Business Administration

Online delivery allows today's busy working professional the opportunity to participate in a program without putting your career on hold. Whether you travel extensively, have a job that prevents you from attending traditional on-campus classes, or have family obligations that limit your available time, the flexibility of online delivery brings the Adams State University M.B.A. program to you, on your schedule.

The online M.B.A. curriculum is well suited for people with either business or non-business undergraduate degrees. You'll spend six continuous semesters, or two years, learning key business, health administration, leadership, and public administration concepts to make you more effective in your current job or to open new employment opportunities.

The online M.B.A. curriculum offers a level of quality and rigor consistent with Adams State's reputation for excellence as an educational institution. The distance M.B.A. program welcomes students from around the globe.

Master of Business Administration Core Requirements

BUS 500 - Leadership Skills for Managers

3 Credit(s)

This course teaches practical skills required for effective management at all levels of an organization, and is designed to increase a learner's understanding of key concepts and procedural guidelines related to organizational management, human resource, and leadership. The purpose is to be equipped to deal effectively with managerial challenges dealing with people.

BUS 505 - Creating Consumer Value

3 Credit(s)

This course presents learners with a comprehensive approach to creating consumer value. This includes marketing and brand management in for-profit firms as well as identifying and meeting consumer needs in non-profit and governmental organizations. Topics include segmentation and targeting of consumers; the positioning levers of product, price, promotion, and distribution; and brand management.

ECON 505 - Managerial Economics

3 Credit(s)

This course demonstrates how economics theory is applied to national and international managerial decision-making. The course covers topics such as demand analysis, production and cost functions, market structure, managerial understanding of public policy, and international trade finance topics. Pre-req.-Undergraduate Economics course with a grade of C or higher.

BUS 520 - Managerial Accounting

3 Credit(s)

This course provides a review of financial reporting standards and statements and analysis of those financial statements. Managerial accounting principles will be explored as well as budgeting, cost allocation, accumulation, cost behavior, and relevant costs; revenues are approached from a managers' perspective. Prerequisite: undergraduate accounting course with a grade of C or higher.

BUS 525 - Financial Analysis

3 Credit(s)

Students will embark on studying basic financial principles and enhance that with understanding various valuation concepts and methods. Emphasis is also placed on capital budgeting and long term financing as well as working capital management. The course will blend time-tested finance principles and the latest advancements with the practical perspectives of the financial manager. Prerequisite: undergraduate accounting course with a grade of C or higher.

Prerequisite(s):

BUS 520 Minimum Grade: C

BUS 540 - Strategy

3 Credit(s)

In this course, learners examine tools and techniques for competitive analysis, strategic planning, and strategy implementation. Learners gain knowledge of the tools and concepts needed to develop a business strategy including macro environmental scanning, industry and competitive analysis, value chain analysis, SWOT analysis, identification of critical success factors and driving forces, and development of strategic alternatives and recommendations.

Public Administration Emphasis

BUS 580 - Public/Nonprofit Management

3 Credit(s)

This course is designed to examine public and nonprofit management. This type of management is driven by mission and/or executive/legislative direction. Students will learn both the theory and practice of public and nonprofit management, using the concept case method and service learning opportunities.

BUS 585 - Public Budgeting and Finance

3 Credit(s)

The course is designed to provide the student with an understanding of the primary financial management issues and decisions that confront senior management in the nonprofit and the public sectors. Students will gain an understanding and examine financial analysis techniques from both a practical and strategic perspective for operating and capital decisions.

BUS 590 - Policy Analysis

3 Credit(s)

This course introduces the study of public policy and analysis. It provides an overview of key policy areas and examines three aspects of public policy study: (a) government institutions and the policy making process, (b) the concepts and methods of policy analysis, and (c) the role of policy analysis in clarifying public problems and helping citizens and policymakers choose from among policy alternatives.

BUS 595 - Public Administration Capstone

3 Credit(s)

The Capstone Course offers each student the opportunity to demonstrate mastery of the theory and practice of public administration by applying the knowledge and skills gained in the MBA-PA program. This involves completing a portfolio project reflecting the cumulative knowledge gained from these experiences.

Minor in Sociology

Go to: Sociology

A Minor in Sociology (18 hours excluding SOC 201) is available through consultation with any sociology faculty member

General Education Requirements for Undergraduates

General Education Requirements for Undergraduates

As part of the Graduation Requirements for Undergraduates, Adams State University has prescribed a program of general education for all students seeking associate or baccalaureate degrees. This is done in the belief that our graduates must possess knowledge, skills, competencies, and an acquaintance with major areas of knowledge commonly possessed by educated persons. Students pursue the general education program goals through a range of formal and informal activities including, but not limited to, the successful completion of the below general education curriculum, Undergraduate Writing Proficiency, as well as their specific Undergraduate Programs .

All students must have a minimum GPA of 2.0 in general education courses to graduate (Fall 2011 admittance or later).

Area I. Communications

6 credits

- ENG 101 Communication Arts I GT-C01 **3 Credit(s)**
- ENG 102 Communication Arts II GT-C02 **3 Credit(s)**

AP SCORE OF 3 ON ENGLISH LANGUAGE/COMP OR ACT SCORE OF 29+ SAT SCORE OF 500+ (BEFORE 4/95) 580+ (BEFORE 5/10) 660+ (AFTER 5/10) - CREDIT (P) IS GIVEN FOR ENG 101.

Area II. Arts & Humanities

6 credits

- AR 101 Art and Creativity GT-AH1 **3 Credit(s)**
- AR 103 Art Appreciation GT-AH1 **3 Credit(s)**
- ENG 203 Major Themes in Literature GT-AH2 **3 to 6 Credit(s)**
- COMM 255 Fundamentals of Media Communication GT-AH2 **3 Credit(s)**
- MUS 100 Introduction to Music Literature GT-AH1 **3 Credit(s)**
- PHIL 201 Introduction to Philosophy GT-AH3 **3 Credit(s)**
- PHIL 205 Logic and Critical Thinking **3 Credit(s)**
- THTR 180 Introduction to Theatre GT-AH1 **3 Credit(s)**

Area III. Mathematics

3 credits

- MATH 104 Finite Mathematics GT-MA1 **3 Credit(s)**
- MATH 106 College Algebra GT-MA1 **3 Credit(s)**
- MATH 107 Trig/ Analytic Geometry GT-MA1 **3 Credit(s)**
- MATH 110 Introduction to Statistics, GT-MA1 **3 Credit(s)**

- MATH 120 Calculus I GT-MA1 **5 Credit(s)**
- MATH 121 Calculus II GT-MA1 **5 Credit(s)**

Area IV. Social and Behavioral Sciences/History

9 credits

- ANTH 201 Cultural Anthropology GT-SS3 **3 Credit(s)**
- ECON 255 Macroeconomics Principles GT-SS1 **3 Credit(s)**
- ECON 256 Microeconomics Principles GT-SS1 **3 Credit(s)**
- POLS 291 American Government GT-SS1 **3 Credit(s)**
- PSYC 101 Introduction to Psychology GT-SS3 **3 Credit(s)**
- SOC 201 Social Imagination GT-SS3 **3 Credit(s)**
- HGP 110 World History and Culture I GT-HI1 **3 Credit(s)**
- HGP 111 World History and Culture II GT-HI1 **3 Credit(s)**
- HIST 202 American History to 1865 GT-HI1 **3 Credit(s)**
- HIST 203 American History 1865-Present GT-HI1 **3 Credit(s)**

At least one course must be a GT-HI1 course; at least one course must be a GT-SS*; and the remaining course may come from either category. Only one ECON course may be used towards the requirements in this General Education area.

Area V. Physical and Natural Sciences

7 Credits

- BIOL 101 Introductory Biology GT-SC1 **4 Credit(s)**
- BIOL 125 Nutrition GT-SC2 **3 Credit(s)**
- BIOL 209 General Biology I GT-SC1 **5 Credit(s)**
- BIOL 210 General Biology II GT-SC1 **5 Credit(s)**
- CHEM 103 Introduction to Forensic Chemistry GT-SC1 **4 Credit(s)**
- CHEM 104 Chemistry in Context GT-SC2 **3 Credit(s)**
- CHEM 111 Introductory Chemistry GT-SC1 **4 Credit(s)**
- CHEM 111L Introductory Chemistry Lab GT-SC1 **1 Credit(s)**
- CHEM 131 General Chemistry GT-SC1 **4 Credit(s)**
- CHEM 131L General Chemistry Lab **1 Credit(s)**
- CHEM 132 General Chemistry GT-SC1 **4 Credit(s)**
- CHEM 132L General Chemistry Lab **1 Credit(s)**
- ENV 101 Introduction to Environmental Science GT-SC1 **4 Credit(s)**
- GSCI 109 Dynamic Earth GT-SC1 **4 Credit(s)**
- PHYS 110 Astronomy: Stars and Galaxies GT-SC2 **3 Credit(s)**
- PHYS 225 College Physics I GT-SC1 **5 Credit(s)**
- PHYS 230 General Physics I GT-SC1 **4 Credit(s)**
- PHYS 231 General Physics I Lab GT-SC1 **1 Credit(s)**
- PHYS 232 Gen Physics II (Cal) GT-SC1 **4 Credit(s)**

- PHYS 233 Gen Phys II Lab (Cal) GT-SC1 1 Credit(s)
One credit hour must be a lab.

Total 31 Credits

GT-Pathways

Adams State University general education requirements align with the State of Colorado GT-Pathways guaranteed transfer curriculum. Students who have completed the GT-Pathways curriculum in its entirety meet Adams State general education requirements. Likewise, any GT-Pathways course, regardless of where it was completed, will meet the equivalent requirement in the relevant GT-Pathways category.

A variety of courses are available in each general education category that meet the required content and competencies for general education. Many of the general education requirements are included in Adams State Institutional Learning Outcomes, and are indicated with (GT) next to the outcome.

Graduation Requirements for Undergraduates

Undergraduate Students include: Transfer, Adams State Online, and Correspondence Students studying for the Bachelor's Degree or the Associate's Degree

Students Must Complete the Following to Graduate with a Bachelor's Degree

Bachelor's Degrees include: The Bachelor of Arts (B.A.), Bachelor of Fine Arts (B.F.A), and Bachelor of Science (B.S) degrees

- A First Year Seminar Course
- General Education Requirements for Undergraduates with an average GPA of at least 2.0.
- All major, minor, area of concentration, or teacher licensure requirements for your chosen Undergraduate Program.
- Both ENG 102 and the Undergraduate Writing Proficiency.
- A minimum of 120 academic (non-PE) semester credits.
- At least 42 academic credits must be upper division (300- to 400-level).
- A cumulative scholastic average of 2.0.

Note

- No D+ grade may apply to a major or minor field.
- Students earning a degree with a double major where one major is in the Bachelor of Arts, Bachelor of Fine Arts, or Bachelor of Science degree area and the other major is another Bachelor's degree area must select the type of diploma they wish to be granted.

Students Must Complete the Following to Graduate with an Associate's Degree

Associate's Degrees include: The Associate of Arts (A.A.) and the Associate of Science (A.S.) degrees

- A First Year Seminar Course
- General Education Requirements for Undergraduates
- Undergraduate Writing Proficiency
- A minimum of 60 credits: 15 of those 60 credits can be in an approved concentration
- A minimum of 15 Adams State University credits

It is Your Responsibility to Know the Requirements for Your Degree

Always review the ASU academic catalog corresponding to the academic year/semester in which you were admitted or readmitted for policies and procedures regarding your degree requirements.

Undergraduate Writing Proficiency

As part of the Graduation Requirements for Undergraduates, proficiency in the use of standard written English is required of all students at Adams State University. Students must meet the Writing Requirements in order for a degree to be conferred. Normally, students will satisfy the writing requirement for a Bachelor's degree by successfully completing ENG 102. Students meeting any of the following criteria will be granted credit for ENG 101 and will be able to enroll directly into ENG 102:

1. earn a score of 29 or above on the English section of the ACT
2. earn a score of 660 or above on the verbal section of the SAT
3. earn a score of 3 or better on the Advanced Placement Exam (AP) in English Literature or a 5 on Literature and Composition.
4. earn a score of 4 or above on the Higher Level IB (International Baccalaureate) examination.

All students pursuing a bachelor's degree will also be required to complete a Writing Intensive Course (WIC) in their major, with a grade of C or better. Students pursuing a double major will only be required to complete a writing intensive course in one major in order to meet the writing proficiency requirement. However, if a WIC is a required course in each of the majors, students must successfully complete both courses.

Faculty & Administration

Go to: Emeritus Faculty

Go to: Officers of Administration

Faculty

A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z

Bethany Adams Clinical Faculty, Counselor Education

B.A., Psychology, University of Colorado
M.A., Clinical Mental Health, Denver Seminary

Christopher Adams (2021) Professor of Chemistry

B.S. in Chemistry, Adams State College
Ph.D. in Chemical Physics, University of Colorado

Courtney Allen (2015) Professor of Counselor Education

B.A. in Psychology from University of Florida, 1998
M.Ed./Ed.S in School Counseling from University of Florida, 2002
Ph.D. in Counseling and Counselor Education, University of Florida, 2015

Meredith Anderson (2015) Professor of Mathematics

B.S. in Mathematics, Ohio State University, 2008
B.A. in Psychology w/ honors, Ohio State University, 2008
M.S. in Mathematics, New Mexico State University, 2011
Ph.D. in Mathematics, New Mexico State University, 2015

David Bertolatus (2021) Assistant Professor of Biology

B.A. in Music Performance, University of Iowa, 2007
B.S. in Biology, Metropolitan State University of Denver, 2013
M.S. in Biology, University of Colorado Denver, 2016
Ph.D. in Integrative and Systems Biology, University of Colorado-Denver, 2021.

Bishal Bhattarai (2023) Assistant Professor of Mechanical Engineering

B.S. in Mechanical Engineerin, Visvesvaraya Technological University -India, 2015
M.S. in Renewable and Clean Energy Engineering, Wright State University, 2018
Ph.D. in Mechanical Engineering, University of Idaho, 2023.

Umesh Bhattarai (2018) Assistant Professor of Chemistry

B.S. in Chemistry, Tribhuvan University -Nepal, 2006
M.S. in Organic Chemistry, Tribhuvan University - Nepal, 2012
Ph.D. in Chemistry, University of New Mexico, 2007.

Beth Bonnstetter (2008) Professor of English and Communication

B.A. from Regis University, 1999
M.A. from Colorado State University, 2005
Ph.D. in Communications, University of Minnesota, 2008.

Benita Brink (1994) Professor of Biology

B.S. in Biology, Aquinas College, 1984
Ph.D. in Biology: Microbial Genetics, Marquette University, 1989.

Jessica Brown (2017) Associate Professor of English

A.A./A.S. in English/Biology, Casper College
B.A. in English, BYU, 2006
M.A. in English, BYU, 2010
Ph.D. in English, Arizona State University, 2018.

Laura Bruneau (2007) Professor of Counselor Education

B.A. in Psychology, Miami University, 1998
M.Ed. in Community Counseling, Kent State University, 2002
Ph.D. in Counselor Education and Supervision, Kent State University, 2007.

Zena Buser (2007) Professor of Agribusiness

B.S. in AgriBusiness, Northwestern Oklahoma State University, 1996
M.S. in AgriBusiness and Economics, West Texas A&M University, 2002
Ph.D. in Systems Agriculture, West Texas A&M University, 2007.

Reilly Caldwell (2023) Food Studies Program Coordinator and Lecturer

B.S. Sustainable Development: Community, Regional, and Global Development, Appalachian State University, 2021
M.A. Sustainable Communities, Northern Arizona University, 2023.

Cecilia Ibarra Cantu (2022) Assistant Professor of Marketing

B.S. in Actuarial Science, Universidad de las Americas, Puebla Mexico, 1994
M.B.A. in Universidad Popular Autonoma del Estado del Puebla, Mexico, 2001
Ph.D. in Business and Management, University of Huddersfield, UK, 2021.

Rebecca Caple() Clinical Faculty, Counselor Education

B.S. Psychology 1997 - Bridgewater University
M.Ed Mental Health Counseling 2004 - University of Massachusetts, Boston
Ph.D. Counselor Education and Supervision 2018 - Adams State University.

Lisa "Mari" Centeno (2004) Professor of Political Science

B.A. in Political Science, Purdue University, 1993
M.A. in Political Science, Arizona State University, 1996
Ph.D. in Political Science, Arizona State University, 2003.

Kim Chacon (2016) Associate Professor of Nursing

B.S. in Business Administration, Adams State College, 1998
B.S. in Nursing, Adams State College, 2007
M.S. in Nursing, University of Colorado, 2012.

Kathleen Chavez (2012) Instructor of English

M.A. in Education, Adams State College, 2003
M.A. in Leadership/Principal License, Adams State College, 2010
M.A. in English - 18 hr. Credential Requirement, Western New Mexico University, 2020.

Ashley Clayton (2016) Assistant Professor of Mathematics

B.S. in Mechanical Engineering, Midwestern State University, 2010
M.S. in Applied Mathematics, Texas Tech University, 2016
Ph.D. in Applied Mathematics, Texas Tech University, 2016.

Annaliesa Connor-Meissner (2021) Visiting Assistant Professor of Art

B.A. in Visual Arts with History, University of the West Indies - Trinidad and Tobago, 2006
M.A. in Art, Adams State University, 2015.

Carol Cotter (2021) Clinical Faculty, Counselor Education

B.A. in Psychology, University of Houston - Clear Lake, 1996
M.A. in Social Work, University of Houston, 1999
Ph.D. in Counselor Education and Supervision, Adams State University, 2021.

Fallon Crowther (2017) Assistant Professor of Nursing

B.S. in Commercial Recreation, Brigham Young University, 2008
B.S. in Nursing from Adams State University, 2015
M.S.N-Ed, Norwich University, 2019.

Morgan Cummons (2017) Visiting Assistant Professor of Nursing

B.S in Business, Adams State College, 2009

A.A.S. in Nursing, Fort Scott Community College, 2011
M.S. in Nursing, Grand Canyon University, 2017.

Terry Dupler (2019) Associate Professor of Human Performance and Physical Education

B.S. in Fitness and Human Performance, University of Houston - Clear Lake, 1989
M.S. in Fitness and Human Performance, University of Houston - Clear Lake, 1991
Ph.D. in Exercise Physiology, Texas A&M University, 1996.

Jeff Elison (2011) Professor of Psychology

B.S. in Computer Science, Mathematics Minor, Kutztown University, 1983
M.A. in Educational Psychology, University of Northern Colorado, 2000
Ph.D. in Psychology, University of Northern Colorado, 2003
Post-doc in Psychology, University of Denver, 2005.

Sara Erdner (2019) Clinical Professor of Kinesiology

B.S. in Communication Studies, University of Alabama - Huntsville, 2012
M.S. in Communication Studies, University of Tennessee, 2015
Ph.D. in Sport Psychology and Motor Behavior, University of Tennessee, 2018.

Joy Ferenbaugh (2023) Assistant Professor of Biology

B.S. in Zoology, University of California at Davis, 1995
M.S. in Wildlife Conservation, University of Minnesota - Twin Cities, 1999
Ph.D. in Biology - Ecological Specialization, Texas Tech University, 2007.

Melissa Freeman (2020) Visiting Assistant Professor of HEAL

B.S.S. in Specialized Studies, Ohio University, 1997
M.A. in Political Science, Ohio University, 2000
Ph.D. in Higher Education Administration, Ohio University, 2007.

Caroline Gabe (2019) Assistant Professor of Anthropology

B.A. in Classical Archaeology and History, University of Michigan, 2003
M.S. in Anthropology, University of New Mexico, 2008
Ph.D. in Anthropology, University of New Mexico, 2019
M.S. Higher Education Administration, Southern New Hampshire University, 2022.

Jess Gagliardi (2021) Director of First Year Seminars

B.A. in History, Government, Adams State University, 2011
M.A. in United States History, Adams State University, 2015
M.A. in Higher Education Administration, Louisiana State University, 2018
Ed.S. in Education Innovation & Leadership, Fort Hays State University, 2020.

Curtis Garcia (2015) Associate Professor of Education

B.A. in Political Science, Yale University, 2008
M.A. in Educational Leadership, Adams State University, 2011.
Ph.D. in Educational Leadership, Research and Policy, University of Colorado - Colorado Springs, 2020.

Sandra Gavin (2021) Assistant Professor of Counselor Education

B.S. in Psychology and Human Services, Upper Iowa University, 2015
M.A. in Clinical Mental Health Counseling, University of Northern Iowa, 2018
Ph.D. in Counselor Education and Supervision, Northern Illinois University, 2021.

Kyle Glenn (2017) Associate Professor of Economics

B.S. in Economics, Portland State University, 2010
M.A. in Economics, University of Denver, 2014
Ph.D. in Economics, The New School for Social Research, 2020.

Anthony Guntren (2021) Assistant Professor of Art

B.F.A. in Art, Western State College, 2000
M.A. in Art, Adams State University, 2011
M.F.A in Art (Sculpture), Colorado State University, 2015.

Christina Harrell (2020) Assistant Professor of Counselor Education

B.A. in Business Administration, Adams State University, 2011
M.A. in Counseling, Adams State University, 2013
Ph.D. in Counselor Education and Supervision, Adams State University, 2020.

Sherie Hawkins (2013) Clinical Faculty - Counselor Education

P.h.D in Counselor Education and Supervision, Regent University, 2014.

Janessa M. Henninger (2015) Clinical Faculty, Counselor Education and Supervision

B.S. In Psychology, College of Charleston, 2004
M.A. in Clinical Mental Health Counseling, University of Northern Colorado, 2011
Ph.D. in Counselor Education and Supervision with a doctoral minor in Applied Research and Statistics, University of Northern Colorado, 2015.

Elizabeth Hensley (2008) Professor of Business

B.S. in Business Administration (Emphasis in Marketing & Management), Adams State College, 2005
M.B.A. in Business Administration, Arizona State University, 2007
Ph.D. in Organization and Management, Capella University, 2016.

Stephanie Hilwig (2003) Professor of Sociology

B.A. in Sociology, Adams State College, 1994
M.A. in Sociology, California State University-Fullerton, 1999
Ph.D. in Sociology, University of Tennessee-Knoxville, 2003.

Karli Icceman (2023) Assistant Professor of Counselor Education

B.A. in English, Oakland University, 2016
B.A. in History, Oakland University, 2016
B.A. in Psychology, Oakland University, 2016
M.A. in Clinical Mental Health Counseling, Oakland University, 2018
Ph.D. in Counselor Education and Supervision, Oakland University, 2023.

Beth Johnston (2023) Assistant Professor of Art

B.A. in Psychology, Wake Forest University, Winston-Salem, North Carolina, 2008
M.F.A in Photography, Rhode Island School of Design, Providence, RI, 2022.

Jamie King (2023) Assistant Professor of Nursing

B.S. in Nursing from Adams State University, 2015
M.S.N-ED, Capella University, 2019.

Lynnea King (2011) Associate Professor of English

B.A. in English/Theatre, Wayland Baptist University, 1990
M.A. in English, Texas Tech University, 1993
Ph.D. in English (20th Century American Literature and Film), Texas Tech University, 1998.

Rena Kirkland (2017) Professor of Psychology

B.A. University of California-San Diego, 1997
M.A. University of Northern Colorado, 2004
Ph.D. in Educational Psychology, University of Northern Colorado, 2013.

Angel Knoverek (2017) Counselor Education Clinical Faculty

B.S. in Psychology, Culver-Stockton College, 1993

B.A. in English, Culver-Stockton College, 1993
M.S. in Clinical Psychology, Benedictine University, 2000
Ph.D. in Counselor Education & Supervision, Regent University, 2012.

Chayan Lahiri (2018) Assistant Professor of Earth Science

B.S. in Geology, University of Calcutta, 2003
M.S. in Geosciences, University of Idaho, 2008
Ph.D. in Geosciences, University of Mississippi, 2018.

Michelle Le Blanc (2016) Assistant Professor of English

B.S. in Journalism & Mass Communication, University of Colorado-Boulder, 1993
M.F.A. in Creative Writing, Antioch University, 2012
Cert. in Creative Writing Teaching Pedagogy, Antioch University, 2012.

Melinda Leoce (2020) Assistant Professor of Music

B.M.E. from University of Central Florida, 2010
M.M. in Percussion Performance and Certificate in Ethnomusicology, Florida State University.

Michael Liebhaber (2019) Assistant Professor of Psychology

B.A. in Wildlife Biology, University of Arizona, 1975
B.A. in Management Information Systems, University of Arizona, 1977
M.A. in Psychology, University of Kansas, 1986
Ph.D. in Child Language, University of Kansas, 1989
PostDoc in Psycholinguistics, University of California - San Diego, 1991
M.F.A. in Painting, Western Connecticut State University, 2006.

Natasha Liebig (2018) Assistant Professor of Philosophy

B.A. in Philosophy, International Relations, and Political Science, Carroll College, 2001
M.A. in Philosophy, University of South Florida, 2010
Ph.D. in Philosophy, University of South Florida, 2016.

James M. Lind (2023) Visiting Assistant Professor of Music and Director of Bands and Applied Brass

B.A. in Music, *Summa Cum Laude*, Texas Wesleyan University, 2003
M.M. in Music Performance, University of North Texas, 2005
D.M.A. in Music Performance and Wind Conducting, University of North Texas, 2012.

William Lipke (2001) Professor of Music

B.M. in Music Performance, University of Arizona, 1982
M.M. in Music Performance, University of Cincinnati, 1984
D.M.A. in Music Performance with a Doctoral Cogane in Music History, University of Cincinnati, 1990.

Richard Loosbrock (2000) Professor of History

B.A. in History, University of Kansas, 1988
M.A. in History, University of New Mexico, 1993
Ph.D. in History, University of New Mexico, 2005.

Michele Mann (2019) Assistant Professor of Teacher Education

B.S. in Biology, Furman University, 1986
M.A. in Biology/Science Education, University of South Florida, 2000
Ph.D. in STEM Education, University of Texas - Austin, 2019.

Mark Manzanares (1996) Professor of Counselor Education

B.A. in Psychology, Adams State College, 1989
M.A. in Community Counseling, Adams State College, 1992
Ph.D. in Education and Human Resource Studies, Colorado State University, 2004.

Maria Martinez (2014) Visiting Instructor of Human Performance and Physical Education

B.A. in Human Performance and Physical Education, Adams State University, 2012

M.S. in Human Performance and Exercise Science, Adams State University, 2014.

George McConnell (2019) Assistant Professor of Theatre

B.A. in Theatre Performance, Western Michigan University, 1997

M.A. in Theatre Studies, Florida State University, 2006

Ph.D. in Theatre Historiography, University of Minnesota, 2011.

Cheri Meder (2013) Chair and Professor of Counselor Education

B.A. in Psychology and Sociology, Western State College, 2004

M.A. in School Counseling, Adams State College, 2008

Ph.D. in Counselor Education and Supervision, Regent University, 2013.

Rebecca Meidinger (2022) Assistant Professor of Counselor Education

B.S. in Psychology, North Dakota State University, 2012

M.S. in School Counseling, University of Mary, 2014

Ph.D. in Counselor Education and Supervision, Adams State University, 2019.

Chris Merriman (2023) Visiting Assistant Professor of Anthropology

B.A. in Anthropology and History, Western State College, 2003

M.S. in Anthropology, University of New Mexico, 2008

Ph.D. in Anthropology, University of New Mexico, 2022.

Christina Miller (2001) Professor of Chemistry

B.S. in Chemistry, Adams State College, 1992

Ph.D. in Biochemistry, University of Arizona, 1998.

Gina Mitchell (2006) Associate Professor of Psychology

B.A. in Psychology/Spanish, University of South Dakota, 2002

M.S. in Psychology, Developmental and Biological Sciences, Virginia Tech, 2004

Ph.D. in Psychology, Developmental and Biological Sciences, Virginia Tech, 2006.

Steve Moody (2023) Clinical Professor, School of Counselor Education

B.S. in Mechanical Engineering, University of Wyoming, 1996

M.C. in Marital, Couple, and Family Counseling, Idaho State University, 2007

Ph.D. in Counselor Education and Counseling, Idaho State University, 2012.

Kieran Nduagbo (2019) Assistant Professor of Teacher Education

B.S.Ed. in Special Education, Loyola University, 2001

M.A. in Educational Administration, Governors State University, 2005

Ph.D. in Higher Education, Seaton Hall University, 2018.

Matthew Nehring (1998) Professor of Physics

B.S. in Physics Engineering, Colorado School of Mines, 1990

Ph.D. in Physics, University of Colorado-Boulder, 1995.

Jenna Neilsen (2007) Professor of Theatre

B.A. in Theatre and Psychology, Ohio Northern University, 2001

M.F.A. in Theatre, Virginia Commonwealth University, 2007.

Frank Novotny (2004) Professor of Chemistry

B.S. in Chemistry, St. Norbert College, 1989

Ph.D. in Chemistry, South Dakota State University, 1993.

Theresa O'Halloran (2001) Counselor Education Clinical Faculty

B.S. in Communication, Arizona State University, 1988
M.C. in Counseling, Arizona State University, 1992
Ed.D in Counselor Education, University of Northern Colorado, 1998.

Melissa O'Neil (2021) Counselor Education Clinical Faculty

B.A. in Psychology, University of Nebraska-Lincoln, 2009
M.A. in Counseling, Eastern New Mexico University, 2013
Ph.D. in Counselor Education and Supervision, Adams State University, 2021.

Meliza Ramirez (2023) Assistant Professor of Spanish

B.A. in English and Spanish, Idaho State University, 2002
M.A. in Romance Languages: Spanish, The University of Alabama, 2005
Ph.D. in Romance Languages: Spanish, The University of Alabama, 2008
M.A. in TESOL, University of Central Florida, 2019.

Blaine Reilly (2016) Counselor Education Clinical Faculty

B.A. in Psychology, Gonzaga University, 1999
M.C. in Counseling, Idaho State University, 2007
Ph.D. in Counselor Education, Idaho State University, 2016.

Neil Rigsbee (2015) Professor of Counselor Education

B.A. in Psychology, College of Santa Fe
M.A. in Counseling, Webster University
Ph.D. in Counselor Education, University of New Mexico.

Tracey Robinson (2001) Professor of Human Performance and Physical Education

B.S. in Human Kinetics, University of Guelph, 1985
M.S. in Physical Education and Biology, New Mexico State University, 1987
Ph.D. in Human Performance, Oregon State University, 1994.

Beth Robison (2009) Professor of Music

B.M. in Vocal Performance, Ohio University, 1986
M.M. in Choral Conducting, Ohio University, 2005
D.M.A. in Choral Conducting, University of Kansas, 2008.

Natalie Rogers (2014) Assistant Professor of Accounting

CPA; M.B.A. in Business Administration, Adams State College, 2011
M.S. in Accounting, Grand Canyon University, 2018.

Katrina Ruggles (2023) Clinical Faculty, Counselor Education and Supervision

B.A. in Psychology and Sociology/Social, Adams State University 1996
M.A. in Community Counseling 1998, School of Counseling Emphasis 2010, Adams State University
Ph.D. in Counselor Education and Supervision, Adams State University 2023.

Charles (Nick) Saenz (2013) Professor of History

B.A. in History and Political Science, University of Chicago, 2005
M.A. in History, University of California-San Diego, 2009
Ph.D. in History, University of California-San Diego, 2013.

Penny Sanders (2013) Counselor Education Clinical Faculty

B.S. in Radio/TV Communication, Eastern New Mexico University, 1984
M.A. in Counseling/Student Personnel, Northern Arizona University, 1988
Ed.D. in Counseling, Texas A&M -Commerce, 1999.

Kelsey Scanlan () Clinical Faculty, Counselor Education and Supervision

B.A. in Psychology from The Ohio State University (2012)
M.S. in Clinical Mental Health Counseling from Wright State University (2016)
Ph.D. in Counselor Education and Supervision from Adams State University (2023).

Colleen Schaffner (2018) Professor of Psychology

B.A. in Psychology, George Washington University, 1985
M.A. in Animal Behavior, Bucknell University, 1991
Ph.D. in Biological Psychology, University of Nebraska, 1996.

Matthew Schildt (2005) Professor of Music

B.M. in Music Recording Technology and Composition, Lebanon Valley College, 1998
M.A. in Music Composition, Kent State University, 2000
Ph.D. in Music Theory and Composition, Kent State University, 2005.

Heidi Schneider (2018) Associate Professor of Sociology

A.A. in Criminology and Justice Studies, Mira Costa Community College, 2007
B.A. in Criminology and Justice Studies, California State University-San Marcos, 2009
M.A. in Sociology, University of California-San Diego, 2013
Ph.D. in Sociology, University of California-San Diego, 2016.

Justine Schwarz (2023) Assistant Professor of Education

B.A. in Elementary Education, Truman State University, 1988
Masters in Teaching and Leadership, St. Xavier University, 2000
Ph.D. in Cognition and Instruction, Grand Canyon University, 2022.

Christopher Schwinghammer (2023) Assistant Professor of Biology

B.S. in Biology, Emporia State University, 2014
M.S. in Natural Science, Southeast Missouri State University, 2017
Ph.D. in Forest Resource Science, West Virginia University, 2022.

Ahmed Shafee (2021) Assistant Professor of Computer Science

B.S. in Communication and Information, Helwan University (Egypt), 2011
M.S. in Computer Engineering, Helwan University (Egypt), 2018
ABD in Electrical and Computer Engineering, Tennessee Technological University, 2022 (Expected in Spring).

Julie Silipo (2023) Clinical Faculty, School of Counselor Education

B.A. in Psychology, Whitman College, 2005
M.S. in School Counseling, Syracuse University, 2011
Ph.D. in Counselor Education and Supervision, Adams State University, 2023.

Kassiopeia Smith (2023) Assistant Professor of Mechanical Engineering

B.S. in Materials Science and Engineering, Washington State University, 2014
M.E. in Materials Science and Engineering, Boise State University, 2017
Ph.D. in Materials Science and Engineering, Boise State University, 2018.

Madeleine Stevens (2017) Counselor Education Clinical Faculty

B.A. in Liberal Arts with emphasis in Studio Arts, University of Colorado-Denver, 1994
M.A. in Art Therapy, Southwestern College, 2005
Ph.D. in Counselor Education and Supervision, Adams State University, 2020.

Colleen Stabolepszy (2023) Counselor Education Clinical Faculty

B.A. in Biology and Psychology, Adams State College (1993)
M.A. in Counseling, Adams State University (1997).

Michael Stewart (2017) Associate Professor of Sociology

B.S. in Sociology/Psychology, East Central University, 1996
M.S. in Sociology, Florida State University, 2003
Ph.D. in Sociology, Florida State University, 2008.

John Taylor (1999) Professor of Theatre

B.A. in Theatre, Wichita State University, 1988
M.A. in Theatre (Hist. Lit. Crit.), Ohio State University, 1990
Ph.D. in Theatre (Hist. Lit. Crit.), Ohio State University, 1994.

Jared Thiemann (2014) Associate Professor of Counselor Education

B.A. in General Studies, Idaho State University, 2007
M.C. in Marital, Couple, and Family Counseling, Idaho State University, 2009
Ph.D. in Counselor Education and Counseling, Idaho State University, 2013.

Kirk Thiemann (2022) Clinical Assistant Professor, School of Counselor Education

B.A. in General Studies, Idaho State University, 2013
M.COUN. in Student Affairs Counseling, Idaho State University, 2015
Ph.D. in Counselor Education and Supervision, University of Wyoming, 2021.

William (Bill) Tite (2019) Assistant Professor of Art

B.F.A. in Graphic Communications, Center of Creative Studies, 1980
M.F.A. in Graphic Design, Savannah College of Art and Design, 2016.

Aaron Tuioti-Mariner (2018) Assistant Professor of Sports Management

A.A. in Business Administration, Brigham Young University, 2000
B.S. in Business Administration, Adams State College, 2002
M.A. in Sports Administration, Adams State University, 2011
M.B.A. in Leadership, Adams State University, 2012
E.L.I. in Educational Leadership, Adams State University, 2013.

Paul Tunis (2020) Assistant Professor of Communications

B.A. in English Literature, Arizona State University, 2006
M.F.A. in Writing (Fiction), Sarah Lawrence College, 2009.

Billy Ulibarri (2021) Assistant Professor of Sociology

B.A. in Sociology/Social Welfare, University of New Mexico, 2001
M.A. in Sociology, University of New Mexico, 2004
Ph.D. in Sociology, University of New Mexico, 2015.

Mark Vander Ley (2019) Counselor Education Clinical Faculty

B.A. in Business Administration, Dordt University, 1999
M.C. in Counseling, University of Phoenix, 2006
Ph.D. in Counselor Education and Supervision, Adams State University, 2018.

Alex Vernon (2022) Assistant Professor of Management

B.S. in Mechanical Engineering, University of Tennessee, 1985
M.B.A. in Business Administration, University of Mississippi, 1987
D.B.A. in Quantitative Analysis, Louisiana Tech University, 1994.

Joaquin Vila (2019) Professor of Teacher Education

B.A. in English, University of Puerto Rico - Mayaguez, 1975
M.A. in Linguistics, Michigan State University, 1983
Ph.D. in Linguistics, Michigan State University, 1991.

Tony Weathers (2005) Professor of Mathematics

B.S. in Mathematics (Minor in Physics), Mercer University, 1991

M.S. in Mathematics, Auburn University, 1993

Ph.D. in Mathematics, Auburn University, 1998.

Ben J. Wilson (2023) Clinical Assistant Professor, Counselor Education

B.G.S. (General Studies), Indiana University, 2006

M.S. in Mental Health Counseling, Capella University, 2010

Ph.D. in Counselor Education and Supervision, Capella University, 2017.

Anthony (AJ) Webb (2017) Assistant Professor of Health Care Administration

B.S. in Business Administration (Emphasis in Healthcare, Minor in Marketing and Management), Adams State University, 2010

M.B.A. in Leadership Track, Adams State University, 2013.

Mohamed Yusri Zaro (2010) Assistant Professor of Finance

M.B.A. in Finance, California State University, 1984

CAGS (Doctoral Level) Certificate of Advanced Graduate Studies in Financial Management, North Central University, 2015.

Brian Zuleger (2014) Professor of Human Performance and Physical Education

B.S. in Exercise and Sport Science, Western Washington University, 2009

M.S. in Human Movement and Performance, Western Washington University, 2011

Ph.D. in Health Education and Promotion, University of Missouri, 2014.

Emeritus Faculty

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Sheryl Abeyta, M.T., Assistant Professor of Accounting, Emeritus since 2022.

Carleton Q. Anderson, Ph.D. Professor of Spanish, Emeritus since 1989

Louis D. Appel, Ph.D. Professor of English, Emeritus since 1982

Robert M. Armagast, Ed.M. Professor of Industrial Arts, Emeritus since 1979

Melvin T. Arnold, Ph.D. Professor of Chemistry, Emeritus since 2001

Timothy Armstrong, Ph.D. Professor of Biology, Emeritus since 2022.

Richard Baker, Ph.D. Professor of English, Emeritus since 2018

Robert Benson, Ph.D. Professor of Geosciences, Emeritus since 2020

Eva R. Borrego, Ph.D. Professor of Education,
Emeritus since 1972

Charles G. Boyer, Ph.D. Professor of Music,
Emeritus since 2004

Donald M. Brooks, M.A. Professor of English,
Emeritus since 1975

Richard L. Burroughs, Ph.D. Professor of Geology,
Emeritus since 1988

Julie Campbell, M.S. Assistant Professor of Business,
Emeritus since 2008

Carrol Joe Carter, Ph.D. Professor of Government
and Politics, Emeritus since 1993

Lee A. Cary, Ed.D. Professor of Education, Emeritus
since 1988

William Chase, Ph.D. Professor of Business,
Emeritus since 1994

Myron L. Clayton, M.A. Vice President for Business
and Financial Affairs, Emeritus since 1991

Alberta Coolbaugh, Ph.D. Professor of Business,
Emeritus since 2011

Carl Coolbaugh, M.B.A. Assistant Professor of
Business, Emeritus since 2008

Jack K. Cooper, D.D.S. Lecturer in Science, Emeritus
since 1994

Gerald Corning, M.B.A. Associate Professor of
Business, Emeritus since 2009

John J. Cotton, Ed.D. Professor of Health, Physical
Education, and Recreation, Emeritus since 1989

James H. Craft, Ph.D. Professor of Biology,
Emeritus since 1975

Edward Crowther, Ph.D. Professor of History,
Emeritus since 2018

William Curlott, Ed.D. Professor of Business,
Emeritus since 1996

Koos Daley, Ph.D. Professor of English, Emeritus
since 2006

Bill Dickey, Ed.D. Professor of EPLS, Emeritus
since 2001

Hobart N. Dixon, Ph.D. Professor of Biology,
Emeritus since 2001

James H. Douglass, M.S.W. Associate Professor of
Sociology and Gerontology, Emeritus since 1988

Donald F. Eden, Ph.D. Professor of Education,
Emeritus since 1988

Theodore J. Ellis, Ph.D. Professor of Economics,
Emeritus since 2005

Randall Emmons, Ph.D. Professor of Physics,
Emeritus since 2009

Wayne S. Farley, Ed.S. Dean of Academic Services,
Emeritus since 1994

Rex Filer, Ph.D. Professor of Counselor Education,
Emeritus since 2015

Cole N. Foster, Ph.D. Professor of English, Emeritus
since 1998

Jeffery Geiser, Ph.D. Professor of EPLS, Emeritus
since 2006

Gordon E. Gillson, Ph.D. Professor of History,
Emeritus since 1988

J. Thomas Gilmore, Ph.D. President and Professor
of Business, Emeritus since 2003

Richard Goddard, Ph.D. Professor of Government,
Emeritus since 2018

James R. Groves, M.A. Professor of Business,
Emeritus since 1972

Carol Guerrero-Murphy, Ph.D. Professor of English,
Emeritus since 2015

J. Hall, M.S. Director of Physical Plant, Emeritus
since 1982

Carolyn Harper, Ph.D. Professor of Theatre,
Emeritus since 2007

Nellie N. Hasfjord, M.A. Associate Professor/
Director of Library, Emeritus since 1985

James P. Hatfield, M.A. Professor of Art, Emeritus
since 1977

Donald D. Hermanson, Ph.D. Professor of
Education, Emeritus since 1993

Margery Herrington, Ph.D. Professor of Biology,
Emeritus since 2014

Virgil I. Hoff, M.A. Associate Professor of English,
Emeritus since 1979

Lee Holland, Ed.D. Professor of Education,
Emeritus since 2001

George B. Hugins, Ed.D. Professor of Education,
Emeritus since 1981

Harry U. Hull, B.A. Director of the SUB, Emeritus
since 1987

Richard Jacobs, Ph.D. Professor of Marketing,
Emeritus since 2006

Phil Jaramillo, Ph.D. Associate Professor of Spanish,
Emeritus since 2004

Dale E. Jeffryes., M.S.E. Associate Professor of
Speech/Theatre, Emeritus since 1984

Martin Jones, Ph.D. Professor of Chemistry,
Emeritus since 2012

Randolph F. Jones, M.M. Associate Professor of
Music, Emeritus since 1985

Charleen Kahre, Ph.D. Professor of Education,
Emeritus since 1997

Veryl F. Keen, Ph.D. Professor of Biology, Emeritus
since 1993

Christine Keitges, D.M.A. Professor of Music,
Emeritus since 2014

Eugene T. Kelly, Ed.D. Professor of Education,
Emeritus since 1984

Carl Koch, Jr., Ed.D. Professor of Business, Emeritus
since 1976

Joseph Kolupke, Ph.D. Professor of English,
Emeritus since 2004

Dale E. Lorimer, Ed.D. Professor of Psychology,
Emeritus since 1973

Ronald E. Loser, D.A. Professor of Mathematics,
Emeritus since 2003

Marilyn M. Loser, Ph.D. Professor of
Mathematics/Computer Science, Emeritus since 2005

Edward Lyell, Ph.D. Professor of Business, Emeritus since 2017

Madonna E. MacGowan, M.A. Professor of Business, Emeritus since 1978

David Mazel, Ph.D. Professor of English, Emeritus since 2014

Teresa "Teri" McCartney, Ph.D. Professor of Counselor Education, Emeritus since 2014

John McDaniel, Ph.D. Professor of History, Emeritus since 2007

Ted McNeilsmith, Ph.D. Professor of Sociology, Emeritus since 2010

Virgil L. McPherson, Ed.D. Professor of Psychology, Emeritus since 1972

Christine E. Moeny, M.A. Assistant Professor of Library Science, Emeritus since 1985

Frank A. Moore, Ph.D. Professor of Chemistry, Emeritus since 1985

Marvin D. Motz, Ed.D. Professor of Psychology, Emeritus since 1994

Theodore Mueller, Ph.D. Professor of Physics, Emeritus since 1997

Michael Mumper, Ph.D. Professor of Political Science, Emeritus since 2019

Randall Newell, D.B.A. Professor of Accounting, Emeritus since 2008

Paul Newman, Ph.D. Professor of Theatre, Emeritus since 2016

William I. Oba, Th.D. Professor of Sociology, Emeritus since 1987

Dorothy J. Orcutt, Ed.D. Professor of Health, Physical Education, and Recreation, Emeritus since 1979

Lawrence E. Orr, M.A. Associate Professor of Health, Physical Education and Recreation, Emeritus since 1982

Clarence Parks, Ph.D. Professor of Sociology, Emeritus since 2011

Norma L. Peterson, Ph.D., LL.D. Professor of History, Emeritus since 1984

Richard C. Peterson, Ph.D. Professor of Geology, Emeritus since 1990

Eva Rayas Solis, Associate Professor of Spanish, Emeritus since 2022

Linda Reid, D.B.A. Professor of Business, Emeritus since 2016

Patricia Robbins, Ph.D. Professor of Business, Emeritus since 2020

R. Neil Rudolph, Ph.D. Professor of Chemistry, Emeritus since 2008

Jodine Ryan, M.A. Assistant Professor of English, Emeritus since 1997

Lena C. Samora, Ed.D. Professor of Psychology, Emeritus since 1995

Eugene Schilling (14-AUG-1996) Professor of Art, Emeritus since 2023

George Sellman, M.S., Assistant Professor of Computer Science, Emeritus since 2022.

Palmer F. Smith, M.A. Associate Professor of Mathematics, Emeritus since 1988

Cloyde E. Snook, M.F.A. Professor of Art, Emeritus since 1992

Lawrence Spannagel, Ed.D. Associate Professor of Industrial Arts, Emeritus since 1985

Connie Spencer, M.A. Assistant Professor of Psychology, Emeritus since 1996

Donald A. Stegman, M.A. Associate Professor of English, Emeritus since 1993

Gary E. Stephens, Ed.M. Associate Professor of Education, Emeritus since 1984

Cloyce Stokes, M.A. Associate Professor of Music, Emeritus since 1982

David P. Svaldi, Ph.D. President and Professor of English, Communication and Theatre, Emeritus since 2015

Clarence R. Svendsen, Ed.D. Professor of Industrial Arts, Emeritus since 1985

Lloyd G. Swenson, Ed.D. Assistant Vice President for Academic Affairs and Professor of Education, Emeritus since 1985

Richard W. Talley, M.A. Associate Professor of English, Emeritus since 1990

Luis M. Trujillo, Ph.D. Professor of Spanish, Emeritus since 1988

Armando Valdez, M.B.A. Assistant Professor of Business, Emeritus since 2022.

Susan Varhely, Ph.D. Professor of Counselor Education, Emeritus since 2015

Joe I. Vigil, Ph.D. Professor of Health, Physical Education and Recreation, Emeritus since 1987

Kay O. Watkins, Ph.D. Professor of Chemistry, Emeritus since 1993

Lynn L. Weldon, Ed.D. Professor of Human Relations, Emeritus since 1993

Arthur S. Wellbaum, M.A. Associate Professor of Business, Emeritus since 1977

Roland E. Wick, Ph.D. Professor of Business, Emeritus since 1979

Paul H. Williams, M.F.A. Professor of Art, Emeritus since 1984

Carroll O. Worm, M.A. Associate Professor of Mathematics, Emeritus since 1989

Brent Ybarrondo, Ph.D. Professor of Biology, Emeritus since 2013

Officers of Administration

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LeRoy Salazar, Vice Chair, San Luis Valley, CO; Appointed 2022
Term expires end of 2024

Pam Bricker, Del Norte, CO; Appointed 2020;
Term expires end of 2024

Thomas Kim, Denver, CO; Appointed 2022
Term expires end of 2026

Michele Lueck, Denver, CO; Appointed 2016; Reappointed 2019
Term expires end of 2023

Jonathan N. Marquez, Denver, CO; Appointed 2021;
Term expires end of 2025

Mark Martinez, Alamosa, CO; Appointed 2021;
Term expires end of 2025

Karen Middleton, Aurora, CO; Appointed 2022;
Term expires end of 2026

Arthur M. Ortegon, Castle Rock, CO; Appointed 2020;
Term expires end of 2024

Faculty Trustee: Faculty Trustee, Ph.D.; Elected 2023;
Term expires end of 2025
(Vacant)

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Carol Osborn

Special Assistant to the President:
Kyle Glenn

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Matthew Valverde, Ph.D.

Director, OEO/Title IX:
Ana Guevara, JD

Academic Affairs

Vice President of Academic Affairs / Accreditation Liaison Officer:
Margaret Doell, M.F.A.

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Dr. Nick Saenz

Assistant Vice President for Graduate Studies:
Dr. Jacek Jonca-Jasinski

Program Assistant:
Jerah Dickson

Academic Advising

Director of Academic Advising:
Trevor Turner

Assistant Director of Academic Advising:
(Vacant)

Academic Instructional Technology Center

Director of AITC:
Tyler Eagan

Adams State Online

Coordinator:
Dr. Mark Manzanares

Admissions

Director of Admissions:
Kara Pettit

Assessment

Director of Assessment:
Dr. Bruce Petrie

Center for Teaching, Innovation, and Research

Director of CTIR:
Dr. Nick Sanders

Extended Studies

Executive Director of Extended Studies:
Renaë Haslett

Financial Aid

Director of Financial Aid:
Heidi Markey

First-Year Seminar

Director of First-Year Seminar:
Jess Gagliardi

Graduate Studies

Assistant Director of Graduate Studies:
Carissa Watts

Grizzly Testing and Learning Center

Manager of Grizzly Testing and Learning Center:
Linsey Wentz

High Impact Practices

Coordinator of High Impact Practices:
Dr. Nick Sanders

Nielsen Library

Library Director:
Jeff Bullington

Prison Education Program

Director of PEP:
Lauren Reed

Registrar

Registrar:
Belen Maestas

Athletics

Athletic Director:
Katelyn Smith

Associate Athletic Director/Eligibility/Compliance:
Trey Compton

Associate Athletic Director/Competitive Rec Sports:
Robert Lopez

Assistant Athletic Director for Academic Affairs:
Max Ruybal

Associate AD of Communications:
Eric Flores

Business Manager/Senior Woman Administrator (SWA):
(Vacant)

Finance

Chief Financial Officer:
Heather Heersink

Budget Director:
Jennifer Yund

Controller:
Lisa Martinez

Controller of Sponsored Programs:
Jody Mortensen

Director of Purchasing:
Renee Vigil

Director of Student Business Services:
Gregory Cook

Infrastructure and Resources

Vice President of Administration:
Kevin Daniel

Director of Human Resources:
Tracy Rogers

Director of Facilities:
Thomas Worley

Director of Construction Management:
Bruce DeTondo

Institutional Advancement

Interim Alumni Relations Director:
Uriah Cisneros

Director of Public Relations and Marketing:
Linda Relyea

Executive Director, Foundation:
Tammy Lopez

Institutional Effectiveness Director:
Lee Allard

Student Affairs

Vice President for Student Affairs:
Dr. Savala Devoge

Program Assistant:
Gina Willis

Director of Counseling and Career Services:
Aftin Gillespie

Director of Admissions:
Kara Gaffney

Director of Co-Curricular Recreation and Engagement:
Vince Alcon