

# Course Catalog

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Set Yourself Apart.



**Colorado  
Northwestern  
Community College**

# GENERAL CATALOG

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# Colorado Northwestern Community College

## 2012 – 2013

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# Colorado Northwestern Community College

## 2012-2013 ACADEMIC CALENDAR

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### SUMMER TERMS 2012

June 4-June 29	Arts & Sciences Session I – Rangely
June 4-July 27	Arts & Sciences – Craig
July 2-July 28	Arts & Sciences Session II – Rangely
May 7-June 1	Nursing
May 7-Aug 17	Cosmetology
May 21-July 14	Aviation Technology
May 21-July 14	Dental Hygiene
May 21-June 15	Equine Studies
May 20-July 27	National Park Service (NPS) Academy
July 27	NPS Academy Graduation – 12:00PM
May 28, Monday	Memorial Day – no class, College closed
July 4, Wednesday	Independence Day – no class, College closed

### FALL SEMESTER 2012

August 13, Monday	All Campus Convocation at Rangely
August 14-17, Tuesday-Friday	Full-time Faculty Orientation/Advising Training
August 16, Thursday	Unregistered Rangely Students and Craig Nursing Students arrive
August 17, Friday	New student testing/advising
August 18, Saturday	Mandatory New Student Orientation
August 19, Sunday	Continuing Rangely students arrive
<b>August 20, Monday</b>	<b>Class Begins</b>
August 22, Wednesday	Last day to register for semester-length class
August 28, Tuesday	NPS Academy begins
September 3, Monday	Labor Day – no class, College closed
<b>September 5, Thursday</b>	<b>Last day to Add/Drop semester-length class</b>
October 8-12, Monday-Friday	Mid-terms
November 9, Friday	NPS Academy Graduation – 12:00PM
November 12, Monday	Spring preregistration begins
<b>November 15, Thursday</b>	<b>Last day to Withdraw from semester-length class</b>
November 19-23, Monday-Friday	Fall Break for Faculty/Students – College open
November 22, Thursday	Thanksgiving Day – College closed
December 10-12, Monday-Wednesday	Finals – semester ends Wednesday 10:00PM
December 13, Thursday	Residence Halls close – 1:00PM
December 14, Friday	Cosmetology ends/Grades due 12:00PM
December 15-January 4	Winter Break for students
December 24-January 1	College closed

### SPRING SEMESTER 2013

January 2, Wednesday	Staff return
January 7, Monday	Cosmetology begins
January 10, Thursday	Faculty return; New Students arrive/testing/orientation
January 11, Friday	New student advising/registration
January 13, Sunday	Continuing students arrive
<b>January 14, Monday</b>	<b>Class Begins</b>
January 15, Tuesday	NPS Academy begins
January 16, Wednesday	Last day to register for semester-length class
<b>January 30, Wednesday</b>	<b>Last day to Add/Drop semester-length class</b>
March 4-March 8, Monday-Friday	Mid-terms
March 11-15, Monday-Friday	Spring Break for Faculty/Students – College open
March 29, Friday	NPS Academy Graduation – 12:00PM
April 8, Monday	Summer & Fall preregistration begins
<b>April 11, Thursday</b>	<b>Last day to Withdraw from semester-length class</b>
April 18, Thursday	Honors Banquet, Rangely Campus – 6:00PM
April 19, Friday	Honors Banquet, Craig Campus – 6:00PM
May 6-May 8, Monday-Wednesday	Finals – semester ends Wednesday 10:00PM
May 9, Thursday	Residence Halls close (unless graduating) – 1:00PM
May 10, Friday	Cosmetology ends/Grades due by noon
May 10, Friday	Aviation Technology Wings Ceremony, Rangely Campus – 7:00PM
May 10, Friday	Nursing Pinning Ceremony, Craig Campus – 6:00PM
May 11, Saturday	Dental Hygiene Pinning Ceremony, Rangely Campus – 10:00AM
May 11, Saturday	Faculty/Staff lunch – 12:00PM
May 11, Saturday	Commencement at Rangely Campus – 2:00PM

# GENERAL INFORMATION

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Colorado Northwestern Community College is an equal opportunity educational institution and will not discriminate on the basis of race, color, national origin, gender, religion, age or disability in its activities, programs, or employment practices. For information regarding civil rights or grievance procedures, contact the Vice President for Administrative Services at CNCC, Rangely, CO.

Colorado Northwestern Community College reserves the right to change or withdraw without notice courses, curricula, policies, tuition, fees or any other information contained in this catalog for the following reasons, including but not limited to:

1. A lack of funds to operate a program or course;
2. Unavailability of instructors;
3. A change in administrative policy;
4. A change in laws, rules, or regulations of the State of Colorado.

Annually, Colorado Northwestern Community College informs students of the Family Education Rights and Privacy Act of 1974 (FERPA), as amended. This Act, with which the institution intends to fully comply, was designed to protect the privacy of educational records, to establish the right of students to inspect and review their educational records, and to provide guidelines for the correction of inaccurate or misleading data through informal and formal hearings. Students also have the right to file complaints with the Family Educational Rights and Privacy Act Office concerning alleged failure by the institution to comply with the Act. Additional information concerning FERPA is located in the Student Handbook. Questions concerning the Family Education Rights and Privacy Act may be referred to the Admissions & Records Office.

CNCC may provide directory information or educational record information without the student's written permission. The following items are designated as "directory information".

- Student name
- Year of birth
- Major field of study
- Participation in officially recognized activities and sports (weight and height of members of athletic teams)
- Dates of attendance
- Degrees and awards received
- Most recent educational institution attended
- College issued student e-mail account

Personal identifiers, such as the student's identification/social security number, cannot be designated as directory information. Students may elect to withhold directory information by notifying the Admissions and Records Office, in writing, within five days after the last day of registration. Requests for non-disclosure will be honored by the College for one academic year. Additional information may be obtained through the Admissions and Records Office.

In accordance with the Equity in Athletics Disclosure Act, CNCC annually compiles and makes available to prospective students, their parents, high school counselors, or any other person who requests it information on participation, revenue generated, and expenditures for varsity athletics. This information can be requested from the Office of Financial Aid or the Records Office.

Information concerning persons who are required by Colorado law to register as sex offenders, including registered sex offenders who are enrolled, employed, or volunteering at Colorado Northwestern Community College, may be obtained from the Rangely Police Department, 209 East Main, Rangely, CO, 81648, 970-675-8466 or the Rio Blanco County Sheriff's Department, Meeker, CO, 81641, 970-878-9625, or on our website: <https://www.cncc.edu/cms/content/security-sex-offenders>

Graduation Rates: The four-year average graduation rate for first-time freshmen entering Colorado Northwestern Community College between 2006-2010 shows that 32% graduated within three years. Additionally, 16% of first-time freshmen who did not graduate transferred to continue their education.

## History of the College

Colorado Northwestern Community College (CNCC) is a publicly supported two-year institution that was established in 1960. The main campus in Rangely was opened in 1962 as Rangely College to a freshman class composed of 82 students. Originally, the College was a branch of Mesa College in Grand Junction, Colorado, but the two were separated in 1970. In July of 1974, Rangely College officially became Colorado Northwestern Community College. It was deemed relevant to change the name since the College was serving many communities by that time. CNCC operated as an independent college under the governance of an elected Rangely Junior College District Board of Trustees, financed by legislative appropriation and district tax levy.

State legislation was subsequently approved whereby affiliated junior college districts could be created. In September 1989, a vote by the electorate in Moffat County created an affiliated junior college district, and activities as a CNCC branch campus began in Craig, Colorado beginning on January 1, 1990. A locally elected five-member Board of Control directed the development of the campus. A local tax provided the funds to expand course offerings in transfer, general education, and occupational programs.

On November 3, 1998, the electorate of both the Rangely Junior College District and the Moffat County Affiliated Junior College District voted to allow CNCC to join the Colorado Community College System (CCCS). The College became a member of the State Community College System on July 1, 1999.

To accomplish the College's Mission to serve the Northwestern portion of Colorado, CNCC maintains Service Area Centers in Meeker, Hayden and Oak Creek, in addition to the campuses in Rangely and Craig.

## Rangely Campus

The main campus is in Rangely. The Town of Rangely is a small, rural community of approximately 2,300 people, located 90 miles north of Grand Junction and 50 miles east of Vernal, Utah. The local economic base comes from oil, coal, natural gas, and ranching along the White River. One of the interesting features for which this area is known is ancient American Fremont and Ute Indian pictographs (paintings on rock surfaces) and petroglyphs (carvings). The terrain is high desert with rolling hills and mesas covered with sagebrush, cedar, and piñon trees. One of the largest migrating deer herds in the nation is found between Rangely, Meeker and Rifle. Antelope, elk, bear, and other wildlife are also abundant.

Rangely sits at 5,200 feet above sea level and is surrounded by some of the nation's most valuable natural resources. Within a 140 mile radius, you can find the Colorado National Monument, the Canyon Lands of Utah, the Flat Tops, the High Uintah Wilderness area, Flaming Gorge, and Dinosaur National Monument.

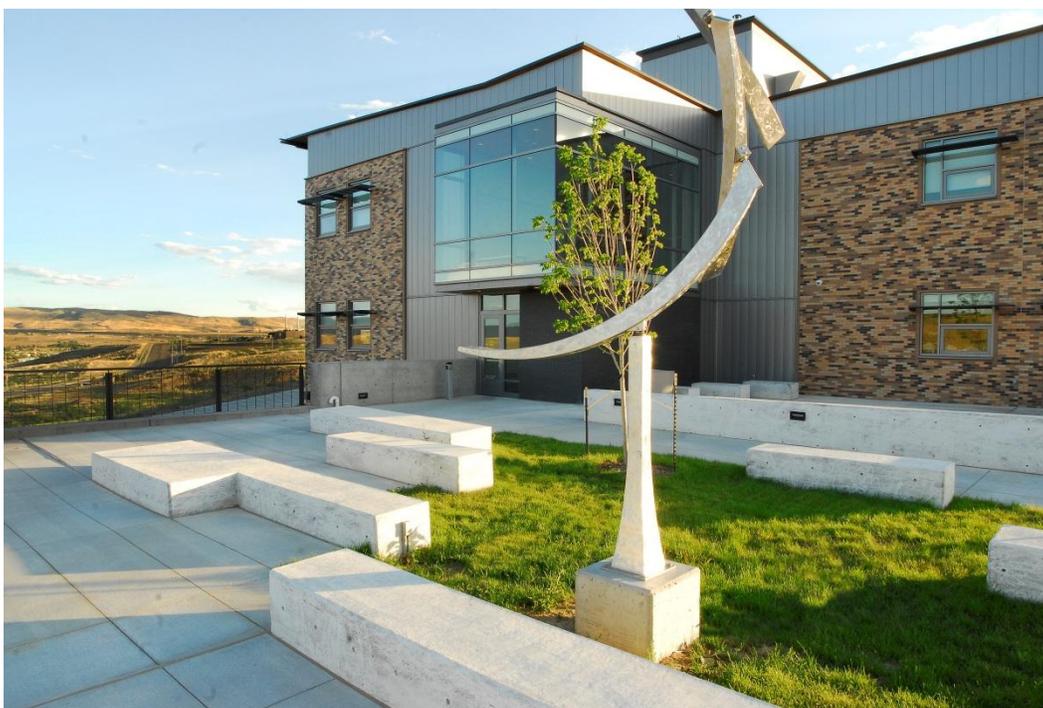


Rangely maintains a public park with picnic areas, playground equipment, and baseball and softball facilities. A community recreation center includes an indoor swimming pool, hot tub, sauna, handball/racquetball courts, sun deck, and weight room. Cedar Ridges Golf Course provides a challenging nine holes of golf. Taylor Draw and Kenney Reservoir are nearby and provide opportunities for fishing and boating. A hospital and family clinic provide excellent medical services to the community and the College.

The CNCC Rangely Campus encompasses an area of 150 acres. The architecture, a blend of native stone and timber, is designed to reflect and complement the rugged beauty of the area. Seventeen buildings are located on campus, with a total square footage exceeding 300,000 square feet. There are three on-campus residence halls, with the newest hall opening in January 1994.

### **Craig Campus**

Craig, a community of 12,000 people, is located just 42 miles west of Steamboat Springs and 90 miles north of Rifle off I-70. The area boasts beautiful, deep river canyons, sandstone buttes with petroglyphs, large alpine forest, rolling high plains, and mountains. The area is a haven for hunters, fishermen, backpackers, mountain bikers, rafters, skiers, and golfers. Craig's economy is inter-dependent on ranching, farming, energy extraction, and tourism.



Our Campus is located at 2801 W 9<sup>th</sup> Street. This new site features the 70,000 square foot Academic Building and houses administrative offices, labs, classrooms, the Adult Learning Assistance Program, the Nursing Program, student study area/Library, as well as the arts and ceramics studios. The second building is the Career and Technical Building which is 14,000 square feet and houses classrooms for the Cosmetology Program and Salon, Massage Therapy Program, Mine Safety Training Center, and the Specialized Mine Training classrooms. The Automotive Technology Center is the third building located on the new site. This 4,000 square foot facility is dedicated specifically to the Automotive Technical and Diesel Programs where students learn hands on technical skills in a state of the art setting.

## Service Areas

The Meeker and South Routt Centers develop courses and programs to meet the needs of these respective communities, including Hayden. Specially designed course work for self-improvement and job skills training/upgrading are offered along with traditional course work. Class scheduling is flexible, and classes are held in a variety of locations and facilities.

## Accreditation

Colorado Northwestern Community College is accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools ([www.ncahlc.org](http://www.ncahlc.org) or (312)263-0456). The Dental Hygiene program is accredited by the Commission on Dental Accreditation, a specialized accrediting body recognized by the Council on Postsecondary Accreditation and the United States Department of Education. Aviation programs are certified and supervised by the Federal Aviation Administration. Nursing is fully approved by the Colorado Board of Nursing and is newly accredited by the National League for Nursing Accreditation Commission. The Seasonal Law Enforcement Training Program (Park Ranger Academy) is Federal Law Enforcement Training Accredited (FLETA).

# CNCC Vision, Mission, and Goals

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## Colorado Northwestern Community College Vision Statement

CNCC will be the college of choice for students seeking place-based education in Colorado. We will take full advantage of the surrounding rivers, deserts, and mountains to enhance our curriculum and provide unique learning opportunities. Our recreational, cultural, and athletic activities will engage students and complement our classroom goals. Innovative teaching, outreach education, and continual assessment will ensure that our students have the skills to further their education, succeed at meaningful careers, and prosper in a complex and increasingly diverse world. Our partnerships with local business, industry, and government will serve as the engine for the economic and cultural development of Northwest Colorado.

## Colorado Northwestern Community College Mission Statement

The mission of Colorado Northwestern Community College is to enhance people's lives through education. To this end, CNCC will:

- Provide accessible, affordable, quality education in safe, rural, small-town environments;
- Prepare our students to achieve their educational, workplace, and personal goals;
- Offer educational programs that respond to evolving workforce environments;
- Offer excellent, two-year general education transfer degrees;
- Provide unique learning, leadership, and recreational experiences in the diverse natural environments of Northwest Colorado;
- Value and promote life-long learning;
- Value and promote diversity, including cultural and ethnic diversity, and diversity of thought and opinion;
- Provide holistic and broadly-based student support;
- Manage fiscal and overall resources to best serve institutional goals and responsibilities;
- Provide campuses and facilities with innovative technology;
- Continue to reach out to the Northwest Colorado community and beyond in order to create meaningful and mutually beneficial partnerships.

# ADMISSIONS

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## **Admission for Regular Students**

Students who are high school graduates or who have earned a General Education Development Certificate (GED), or high school non-graduates 17 and over may be granted regular admission into the College. This does not include automatic admission into college-level English and math courses or admission into a particular program due to enrollment limits, academic requirements, or selective admissions. All students are subject to mandatory assessment and placement policies.

## **Admission for High School Students**

High School students participating in the Concurrent Enrollment Program need to apply for admission with CNCC and complete the Accuplacer assessment test or provide ACT/SAT scores that meet the minimum requirements. Next, students must meet with their high school counselor and create an educational plan. Students can then register for classes using the Concurrent Enrollment Agreement and Registration form. The statewide agreement among Colorado school districts requires the statewide agreement form to be completed and submitted to the CNCC - Admissions & Records Office, 500 Kennedy Drive, Rangely, CO 81648. These forms may be obtained from your high school counselor, or from CNCC's Admissions & Records Office.

Students under the age of 17 who are taking classes other than through the Concurrent Enrollment Program must be granted an Age Waiver, approved by the Vice President of Instruction and Student Affairs, and signed by the President of the College before classes begin. Age Waiver forms may be obtained from the Admissions and Records Office.

## **Admission for Transfer Students**

Transfer students seeking admission to Colorado Northwestern are to follow the procedures outlined under Admissions Procedures with the following exceptions:

Students who have completed 12 hours of college-level work are not required to submit high school transcripts.

College transcripts will be evaluated prior to registration to ascertain acceptable credits that will apply to the student's program of study. Courses for which the student has earned a grade of "D" or "F" will not be accepted for credit.

Students with a GPA below 1.5 may be admitted on academic probation.

In determining academic standing while attending CNCC, the GPA of a transfer student is computed on the basis of credits attempted at Colorado Northwestern only and will not include credits and grade points earned at other colleges.

Transfer of credit for vocational courses is determined by the program director of the occupational program in which the student is seeking a degree.

## Admission for International Students

Applicants who are residents of another country are admitted to Colorado Northwestern after the Admissions and Records Office has received and approved the following:

- General Application for Admission
- High School Transcripts, translated to English (see Admissions Procedure for details)
- College Transcripts, translated to English (see Admissions Procedure for details)
- Certificate of Health (see Admission Procedure for details)
- Test of English as a Foreign Language (TOEFL) or successful completion of an English as a Second Language program and a recommendation from an English Instructor. **NOTE:** This test is not required of students from countries where English is the native language. Students with TOEFL scores below 53 (Internet-based test), or below 500 on the paper/pencil exam, may be denied admission.
- Financial statement outlining resources available and assuring support while the student is in the United States.
- Deposit of \$500 prior to issuance of an I-20. This deposit will be applied to the student's first semester expenses. The I-20 will be forwarded after the student is accepted and the \$500 deposit is received.

## Admission Under Ability to Benefit (ATB)

A student without a high school diploma or GED (General Educational Development) credential may enroll in courses at Colorado Northwestern Community College if the student meets the following criteria:

1. The student is at least 17 years old and not attending high school; and
2. The student demonstrates an "ability to benefit" from postsecondary education by passing an appropriate test at the level specified by the United States Department of Education.

CNCC uses a computerized placement test, Accuplacer, for testing purposes. The Accuplacer Reading Comprehension, Sentence Skills, and Arithmetic tests are approved for Ability to Benefit purposes. The minimum scores for the subtests are:

Reading Comprehension	55
Sentence Skills	60
Arithmetic	34

An ATB candidate must meet or exceed the minimum scores on each of the three approved tests in a single testing experience. Candidates who do not meet or exceed all three passing scores must retake the complete set of three tests and pass all three tests in that administration. Once a student has met the minimum ATB scores, the student does not have to retest for ATB in their lifetime. Note: Our placement scores still apply. These scores are simply to qualify for financial aid. In addition, our retest policy for placement (scores must be within 5 years) is also still applicable.

## Application Procedure for Degree-Seeking Students or Students Enrolling Full-Time

Applicants for a degree or certificate are required to submit the following to the Admissions and Records Office.

1. **Application for Undergraduate Admission** - An Application for Admission may be completed online at [www.cncc.edu](http://www.cncc.edu). Paper application forms may be obtained from any Colorado high school or by writing or calling the Admissions Office at Colorado Northwestern.
2. **High School Transcripts** - Official seventh semester and/or final high school transcripts are recommended of all applicants who have or will graduate from high school. Applicants who have not graduated from high school are required to submit the results of the GED examination, unless seeking admission as a special student. High School transcripts are to be forwarded directly by the issuing institution to the Admissions Office. Transcripts presented by the applicant will not be considered official.

**College Transcripts** - Applicants who have attended college elsewhere must submit a transcript of all college work from each college attended. College transcripts are to be sent directly by the issuing institution to the Admissions Office. Transcripts carried by the applicant must be in a sealed, stamped envelope from the issuing institution to be considered official.

3. **Student Profile Report of the American College Test (ACT), Scholastic Aptitude Test (SAT), or Accuplacer Assessment Scores**, - ACT, SAT, or Accuplacer examinations are not required for admission to CNCC, but are used in determining whether or not a student is required to take placement exams at CNCC prior to registration (see mandatory placement policy). Students who have taken any of the exams above **within the last five years** are encouraged to submit scores to the Admissions Office.
4. **Certificate of Health** - Students entering Colorado Northwestern for the first time and participating in varsity athletics and/or one of the National Park Service academies are required to present a certificate of good health by a family physician. In addition, students entering the Aviation Technology Program are required to obtain a physical from an FAA approved physician.
5. **Immunization Records** - (Primarily residential campus students and nursing students) All students who were born after 1956 and attending full-time must show documented proof of measles, mumps and rubella immunization (two doses after the first birthday), prove immunity, or request a waiver from immunization. A waiver from immunization is permitted for medical, religious, or philosophic reasons. In the event of a measles outbreak, these individuals will be denied access to the campus and can be quarantined. Additionally, since July 1, 2005, students should be vaccinated against Meningococcal disease. Students who are not vaccinated must review the information on meningococcal disease and sign a statement that they have decided not to obtain a vaccination against meningococcal disease. Students living in the residence halls must comply with this policy prior to occupancy. Failure to comply with this policy will result in withholding registration after the first semester of attendance until acceptable proof is obtained. *Dental Hygiene and Nursing students must meet additional immunization requirements. Contact the appropriate program for further information.*

In accordance with Board Policy BP 4-10, the college reserves the right to review and revoke the enrollment of any individual whose personal history and background indicates that his or her presence at the college would endanger the health, safety, welfare, or property of the college community or interfere with the orderly and effective performance of the college's functions; and/or any individual who has misrepresented his/her credentials or background. The policy is online at [www.cccs.edu/SBCCOE/Policies/BP/PDF/BP4-10.pdf](http://www.cccs.edu/SBCCOE/Policies/BP/PDF/BP4-10.pdf).

Students who have a break in enrollment of 3 or more semesters will be required to complete a new application for admission. Additionally students will be subject to the graduation requirements outlined in the College Catalog at the time of readmittance.

## Mandatory Assessment

Most students enrolling for the first time at Colorado Northwestern Community College and seeking a degree or certificate will be tested in the areas of reading, writing, and mathematics. The following students are exempt from the requirement of assessment:

1. Students who have earned a Bachelor's or Associate's degree.
2. Students who have successfully completed basic skills instruction in mathematics, writing, or reading are exempt from the requirement for assessment **in that subject area only**.
3. Students who have successfully completed a college-level course in English are exempt from the requirement for assessment in English and reading. Students who have successfully completed a college-level course in mathematics are exempt from the requirement for assessment in mathematics.
4. Students who have taken the ACT test within the five years prior to enrollment are exempt from assessment **in that subject area only** if they scored:

English	18
Reading	17
Mathematics	19 (MAT 120)
Mathematics	23 (MAT 121)

*(Subject to change for the 2013-14 academic year)*

**However, our past experiences indicate that a significant number of students who score higher than the scores listed but below 23 in English and/or Reading experience difficulty in achieving success in college-level courses. If students' relevant ACT scores fall within the 18/19-22 range, we strongly advise students to take the appropriate placement exam to ensure that they are placed into courses that optimize their likelihood of success in college.**

5. Students who have taken the SAT test within the five years prior to enrollment are exempt from assessment **in that subject area only** if they scored:

Verbal (English)	440
Verbal (Reading)	430
Mathematics	460

**However, our past experiences indicate that a significant number of students who score higher than the scores listed but below 560 in Verbal and/or Mathematics experience difficulty in achieving success in college-level courses. If a student's relevant SAT scores fall within the 440/450-550 range, we strongly advise them to take the appropriate placement exam to ensure that they are placed into courses that optimize their likelihood of success in college.**

6. Students who have taken the Accuplacer college placement exams within five years prior to enrollment are exempt from assessment **in that subject area only** if they scored

Reading	80
Writing (Sentence Skills)	95
Mathematics (Elementary Algebra)	85

7. Students who are enrolled in a certificate program that does not require college-level English or math courses.
8. Secondary students who are not enrolling in college-level English or math courses.

There is a minimal fee for Accuplacer placement testing at Colorado Northwestern Community College.

## Mandatory Placement

If a student's performance on a college placement exam indicates that the student needs basic skills instruction in reading, English and/or mathematics, the student **must** enroll in appropriate basic skills courses. Enrollment for more than one semester may be required depending on placement scores. Students should discuss placement scores and appropriate college-level preparation courses with an Academic Advisor.

CNCC offers the following basic skills courses in English, mathematics and reading:

ENG 075-078	College Prep English
MAT 070-075	College Prep Math
REA 075-077	College Prep Reading

Basic skills courses and/or guided experiences are also offered online through the Colorado Community College Online Consortium ([www.cconline.org](http://www.cconline.org)) and at these other Colorado colleges:

Arapahoe Community College  
 Adams State College  
 Aims Community College  
 Colorado Mesa University (Mesa State)  
 Colorado Mountain College  
 Community College of Aurora  
 Community College of Denver  
 Front Range Community College

Lamar Community College  
 Morgan Community College  
 Northeastern Junior College  
 Otero Junior College  
 Pikes Peak Community College  
 Pueblo Community College  
 Red Rocks Community College  
 Trinidad State Junior College

Basic skills courses are designed to help students develop the skills to be successful in college-level courses. However, they **do not** count toward graduation, and they **will not** transfer to a four-year institution.

## Admission to the Aviation Technology Program

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In addition to the steps outlined under Admissions Procedures, students wishing to reserve a position in the Aviation Program should submit a \$500 deposit to the CNCC Cashier for Flight Account by June 1. If your plans change and you do not wish to attend Colorado Northwestern, this deposit is refundable until August 1. After August 1, \$350 of the deposit is refundable.



Prior to the start of Fall Semester, all flight students will need to submit a copy of their birth certificate. Additionally, all flight students are to have in their **personal possession** a Medical Certificate/Student Pilot Certificate. This is accomplished by scheduling a physical exam, which must be performed by an FAA-designated Aviation Medical Examiner. There are three classes of medical certificates: first, second, and third. The third class will qualify for all flight training, and it is the minimum level of flight certificate. It is recommended, however, that flight students receive at least a second class medical, as this is the minimum level needed to fly for hire. The first class is the level required to fly for the airlines, and it is advised that students take this level of medical to avoid surprises later. After you receive your Medical Certificate/Student Pilot Certificate, keep it in your personal possession, just like your Driver's License. **Do not** mail it to CNCC. If help is needed finding a qualified doctor to give these medical exams, call the CNCC Flight Department (800-562-1105) to help locate the doctor nearest your home. A searchable list, by state and city, is also available on the web at <http://ame.cami.iccbi.gov>

## Admission to the Dental Hygiene Program

Application to Colorado Northwestern is the initial step for entrance into the Dental Hygiene Program. Dental hygiene currently admits 27 students per year and receives more applicants than can be accepted. Applications must be received in the Dental Hygiene office by February 1<sup>st</sup>, and an on-campus visit is encouraged as part of the application process. A complete application includes all materials listed under the Admissions Procedures. The following are requirements for application and are used in the evaluation process: General Application for Admission, Letter of Self Recommendation, 3 Reference Forms (references must be made on the CNCC Reference Form), Official transcripts of all colleges attended sent to the Registrar's Office, exception; CNCC students may submit unofficial transcripts to the dental hygiene program. The following are not requirements for application but are used in the evaluation process: Dental Office Experience, both the employer and the applicant must sign the CNCC Form, or CNCC Pre-Dental Hygiene Internship, or certificate of completion from an accredited dental assisting school. Failure to submit all required materials by the deadline will negate the application process. It is the applicant's responsibility to verify that all materials have been forwarded to the Dental Hygiene Program.



### Prerequisites to be considered for the Dental Hygiene Program

Applicants must earn a minimum GPA of 2.8 and grades of "C" or better on all prerequisite courses and general education courses that apply to the Dental Hygiene Associate of Applied Science degree (it's not a requirement that prerequisite and general education classes be taken at CNCC).

- a. BIO 201 & 202 - Human Anatomy and Physiology I,II
- b. BIO 204 - Microbiology
- c. CHE 102 - Introduction to Chemistry II  
(CHE 102 is PREFERRED but CHE 109 - General Organic, & Biochemistry or CHE 111 - General Chemistry will be accepted in lieu of CHE 102)
- d. ENG 121 - English Composition I

If selected, conditional applicants must submit final official transcripts for all required courses to the Registrar's Office by June 1st. **NOTE:** The course numbers listed above are course numbers at CNCC. For equivalent courses at other colleges/universities, or if you have questions concerning any of the above requirements, contact the Admissions and Records Office at CNCC or visit [www.cncc.edu](http://www.cncc.edu). Complete application instructions and all application materials can be found on the CNCC website ([www.cncc.edu](http://www.cncc.edu)) or obtained through the Dental Hygiene Program.

## Admission to the Nursing Program

The Nursing Program at CNCC offers an Associate of Applied Science Degree in Nursing (ADN). Following successful completion of the program, students are eligible to sit for the National Council Licensure Examination (NCLEX-RN) to become licensed as a Registered Nurse (RN). Following completion of the first year of the Nursing Program, students may opt to take a Transition to Practical Nursing course to become eligible to sit for the NCLEX-PN and gain licensure as a Licensed Practical Nurse (LPN).



Enrollment in the Nursing Program is limited to 28 students per year. Potential nursing students must complete all prerequisite coursework with a GPA of 2.5 or higher and pass the Test of Essential Academic Skills (TEAS®) entrance exam with an Adjusted Individual score of 58.7% or higher within three attempts/year to be considered for admission. For more information about TEAS testing, contact the CNCC Nursing Program at 970-824-1104, or email Darby McDermott at [darby.mcdermott@cncc.edu](mailto:darby.mcdermott@cncc.edu)

### Prerequisites for the Nursing Program include:

- a. ENG 121 - English Composition I\*
- b. BIO 201 & 202 - Human Anatomy and Physiology I, II\*
- c. BIO 204 – Microbiology\*
- d. PSY 235 - Human Growth and Development

Please note that students must complete the Accuplacer and achieve an EA score of at least 61 to be enrolled in MTH103 in the first semester of the Nursing Program. A remedial math course may be required prior to admission to the Nursing Program.

Because of increasing interest and demand for admission to the ADN Program, admission decisions are based on a competitive admission process. This competitive admission process considers GPA, TEAS excellence, completion of additional coursework, and previous healthcare and/or college experience. Competitive Admission Points are assigned for the following:

- Passing the TEAS test on the first attempt;
- Higher cumulative GPAs on prerequisite courses;
- Successful completion of Medical Terminology; Pathophysiology (4 credits), and/or Nurse Aide Training;
- Work experience in a health care field; and
- Previous college degree.

The Nursing Program at CNCC also offers a Nurse Aide course that prepares students for the certification exam to become a Certified Nurse Aide (CNA). This 4 credit hour course also requires students to enroll in the 1 credit hour clinical component that requires students to participate in 24 hours of clinical preparation.

To participate in Nursing courses at CNCC, students are required to complete a background check/fingerprinting, drug screening, CPR certification and specific immunization records must be on file prior to admission. Students must contact the Nursing Program office before completing these requirements. A list of disqualifying offenses related to criminal background checks can be found on our website.

For more information, please visit our website at <http://www.cncc.edu/cms/content/nursing-welcome>

\* Please note that ENG and BIO courses may have additional prerequisites depending on Accuplacer scores and college transcripts

## **Course Enrollment Information**

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### **Registration**

In order to become a student at Colorado Northwestern, an applicant must register on official forms provided by the College or through the online registration process at the appointed time. Credit will be given only for courses for which the student is registered. Students with no prior college experience are strongly encouraged to attend one of our scheduled **Student Testing, Advising, Registration (STAR)** programs held during July and just prior to the beginning of the fall semester.

### **Drop for Non-Attendance**

Students are expected to attend all classes. Failure to attend any class sessions between the start of the course and the census (drop) date of the course may result in being dropped from the course as a "no-show" by the faculty member. Being dropped as a no-show student can have significant negative consequences for students using financial aid and / or veterans benefits.

Attendance in an online course is defined as accessing the course and completing at least one academic activity. What constitutes an academic activity may vary from course to course based on the uniqueness of each course.

Instructors will inform students in the class of their individual attendance policies. Students who miss too many class sessions may be advised to withdraw from a course.

### **Schedule Changes**

Students are expected to arrange their academic schedule carefully and maintain this schedule throughout the semester. Necessary schedule changes may be initiated through the Admissions and Records Office (in the Johnson Building in Rangely or the Academic Building in Craig). Students who are not able to come to one of the campuses, or who are taking classes remotely can initiate the process by calling 970-675-2261 or emailing [Infocentral@cncc.edu](mailto:Infocentral@cncc.edu). Another option available to all students is to access their Crossroads account. Students are encouraged to consult with their academic advisor and the appropriate instructor(s) prior to completing the schedule adjustment.

Students may add or drop courses from their schedules during the first 15 percent of the course meetings. Dropped courses within this time period will not be reflected on a student's transcripts and 100-percent of the tuition is refunded.

Students may withdraw from a course any time through 80 percent of the course without academic penalty, and the grade assigned will be "W." No refund is granted for classes from which a student withdraws.

## Withdrawal from the College

Students who decide to leave CNCC at any point during the semester are strongly encouraged to formally withdraw by contacting the Admissions and Records Office. Staff members will provide the appropriate course adjustment form, or students can choose to access Crossroads to withdraw. If the withdrawal from CNCC occurs before the census (drop) date, 100 percent of the tuition will be refunded and there will be no academic penalty. Students who withdraw after census date will be responsible for tuition. Additionally, any financial aid accepted/received will be subject to the Return of Title IV Funds calculation.

Students who have made use of the various campus services or have been involved in athletics, are encouraged to complete the Student Withdrawal & Clearance Form. This form is designed to make sure students contact all of the appropriate departments before leaving campus. Until the Registrar certifies the withdrawal to be complete, no refunds can be made.

The official transcript for a student who withdraws from the college after census date up through 80 percent of the semester will reflect a "W" in each course for that semester. A student who fails to withdraw from the College before the last day to withdraw will receive the grade earned for the semester. If extenuating circumstances exist, a student can file a Student Petition. If approved, the Vice President of Instruction and Student Affairs may change the final grade(s) to "W".

## Student Conduct

Colorado Northwestern students do not gain or lose any of the rights and responsibilities of other citizens by virtue of their student status. The College recognizes the student as an adult pursuing an education. Just as a student does not lose citizenship rights upon enrolling at a college, the student also does not become immune to society's obligations and laws or to responsibilities of daily living in a broader society. In general, behavioral norms expected of the college student are those of common decency and decorum, recognition of the non-infringement upon the rights and property of others and of the College, honesty in academic work and all other activities, and observance of local, state, and federal laws. When students enter college, they take upon themselves certain social responsibilities and obligations including satisfactory performance and social behavior consistent with the lawful purposes of the College. Student conduct, therefore, is not considered in isolation within the college community but as an integral part of the educational process. All students are expected to know and abide by this code of student conduct. Ignorance is not an excuse. As members of the college community, students are also subject to the rules and regulations of the College that are stipulated in the *Student Handbook (Code of Conduct and Disciplinary Proceedings, Page 30)* and *College Catalog*. The Student Handbook can be found at <http://www.cncc.edu/cms/content/security-students-right-know> .

Disciplinary action may be taken for failure to comply with rules and regulations of the school and for uncooperative attitude toward the school's faculty, staff, or fellow students.

## Crossroads and Student Email

In accordance with State Board Policy BP 4-32 students will be issued CCCS student e-mail account and that account shall be the primary means of communication with students. This policy can be found online at <http://www.cccs.edu/SBCCOE/Policies/BP/PDF/BP4-32.pdf>

Crossroads CNCC is our student portal system. Crossroads gives you instant access to your classes, financial information, transcripts, college email account, and other important documents. To log in, you will need your Student ID and temporary password found on your acceptance letter.

## Student Right to Know and More

As an institution of higher education that receives Title IV funds, Colorado Northwestern Community College provides the following information as a "Student's Right to Know." As a student at CNCC you have the right to be informed of basic consumer information such as: disclosures on equity in athletics, loan counseling, financial assistance, graduation and transfer-out rates, alcohol and drug abuse prevention, misrepresentation, campus security, and the Family Educational Rights & Privacy Act.

You may access these links from <http://www.cncc.edu/cms/content/security-students-right-know>

- Non-Discrimination Statement
- Statistical Data\*
- Employee Directory
- Academic Program Information
- Family Educational Rights & Privacy Act (FERPA)†
- Financial Assistance and Eligibility
- Costs of Attendance
- Services for Students with Disabilities
- Requirements and Procedures for Withdrawing from CNCC
- Federal Student Aid Return of Funds
- Campus Crime Statistics and Sex Offender Information
- Drug Policy
- Alcohol Policy
- Athletic Program Participation Rates and Financial Support Data
- Accreditation of School and Programs
- Changes of Schedule
- Degree Verification
- Transparency Online Project (TOP)†
- Colorado Northwestern Community College Catalog
- Student Handbook

You may also receive a paper copy upon request by calling: 1-800-562-1105

# Student Support Services

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## Students with Disabilities

CNCC complies with the Americans with Disabilities Act of 1990 and section 504 of Rehabilitation Act of 1973 and 1974. CNCC provides a support environment for students with physical, mental, emotional, learning, and/or temporary disabilities. Only students who have met the criteria and definition to receive accommodations, as outlined by the Americans with Disabilities Act of 1990 and section 504 of Rehabilitation Act of 1973 and 1974 and CNCC's documentation requirements, receive educational and/or physical accommodations. CNCC suggests that students contact the Coordinator Of Counseling and Career Planning (Rangely Campus) or the Learning Assistance Coordinator (Craig Campus) 4 to 6 weeks prior to the beginning of school year to ensure that accommodations are in place. Please visit <http://www.cncc.edu/cms/content/counseling-and-career-planning-educational-accommodations> for documentation requirements and our application to receive services.

There are several resources available to students with mental, emotional, physical, learning, and/or temporary disabilities of some sort (Ex. recent surgeries or injury). In order to receive accommodations such as isolated testing, extended testing time, books on tape, appropriate documentation must be submitted to the Coordinator of Counseling and Career Planning (Rangely Campus) or the Learning Assistance Coordinator (Craig Campus). Tutoring and assistive technology are available to students on both campuses. The computer labs in the Library (Rangely Campus) and ALAP (Craig Campus) have assistive technology, such as a reader program, available for students to use. Counseling and Career Planning is available to student on both campuses.

## Academic Advising

Advising services are designed to assist students in their academic pursuits at Colorado Northwestern. Students are assigned advisors knowledgeable of their program areas as well as College policies relevant to graduation and transfer.

In order to assure that students meet Associate Degree and/or Certificate requirements, and to assure maximum transferability of courses, the student and his or her advisor should use the DegreeWorks program, accessible through Crossroads. A proposed program will be outlined to assist the student in meeting degree or certificate requirements. Changes may be made in the program requirements only through mutual agreement of the student and the Program Director and approved by the Vice President of Instruction and Student Affairs.

Students entering Colorado Northwestern under a specific program will follow the initial requirements as outlined in the College Catalog as long as they are continuously enrolled either as a full-time or part-time student (excluding summer sessions). Breaks in enrollment may result in changes in the student's program requirements.

*The student is ultimately and solely responsible for knowing the requirements of a particular degree or certificate as outlined in the College Catalog and fulfilling those requirements.*

## Learning Assistance Services

Students who need to improve their background in English, reading, math, and study skills will find the opportunity through the Learning Center. This academic support program may offer classes, small-group tutorials, and individual walk-in assistance or peer tutoring. Also, students who have not earned a high school diploma may prepare for the GED examination. For more information about CNCC's Learning Assistance Services, contact the Learning Center on the Rangely Campus at 800-562-1105 (x3211) or the Adult Learning Assistance Program (ALAP) on the Craig Campus at 800-562-1105 (x1126).

Individual assistance in the Meeker, and Oak Creek Service Areas may be arranged by contacting the Service Area Coordinator: Meeker Center Coordinator - Iris Franklin, (970)878-5227; and South Routt Coordinator - Julie Hoff, (970)736-2323.

## Library Services

The Rangely Campus library is located in the heart of campus, on the lower level of the McLaughlin Building. The collection reflects and supplements the College curriculum by offering over 27,000 items, including books, audio-visual materials, hard copy, and on-line periodicals and equipment. Reference, reserve, interlibrary loan, photocopying, Internet access, and software programs on networked computers are some of the many popular services offered through the library. Colorado Northwestern's library exists to serve the information and learning needs of students, faculty, staff, and the community.

The Craig Campus library is on the upper level of the newly constructed Academic and Student Services building. The library offers a growing collection, reference services, wireless and networked Internet access, group study rooms, Interlibrary Loan services, and a wide-array of online periodicals. Colorado Northwestern's libraries are dedicated to serving the information and learning needs of students, faculty, staff, and the community.



# TUITION AND FEES SCHEDULE 2012-2013

*Tuition and fees are subject to change by the State Legislature and Governing Board. Some courses have extra charges. See the 2012 Fall Class Schedule for more information. (Effective Fall 2012)*

## TUITION

In-State Tuition (resident with COF).....	\$112.75 per credit hour
In-State Tuition (resident without COF).....	\$174.75 per credit hour
Out-of-State Tuition (non-resident) .....	\$223.45 per credit hour
Western Undergraduate Exchange (WUE)*.....	\$169.15 per credit hour
CCC Online Courses (resident with COF) .....	\$199.30 per credit hour
CCC Online Courses (resident without COF) .....	\$261.30 per credit hour
CCC Online Courses (Out-of-State) .....	\$303.75 per credit hour

### **Tuition for High-Cost Programs**

Nursing (NUR) (resident with COF) .....	\$164.30 per credit hour
Nursing (NUR) (non-resident) .....	\$275.00 per credit hour
Dental Hygiene (DEH) (resident with COF) .....	\$221.20 per credit hour
Dental Hygiene (DEH) (non-resident) .....	\$331.90 per credit hour
Aviation Maintenance (AMT) (resident with COF).....	\$221.20 per credit hour
Aviation Maintenance (AMT) (non-resident) .....	\$331.90 per credit hour
Aviation Maintenance (AMT) (WUE)*.....	\$277.60 per credit hour
Aviation Flight Technology (AVT) (resident with COF).....	\$267.80 per credit hour
Aviation Flight Technology (AVT) (non-resident) .....	\$378.50 per credit hour
Aviation Flight Technology (AVT) (WUE)* .....	\$324.20 per credit hour

*\*WUE eligible State: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington, and Wyoming. Ineligible programs: Dental Hygiene, Nursing, NPS Academy. WUE rates do not apply to CCCOnline classes.*

## FEES

### **College Fee**

Student Government Fee.....	\$ 2.49 per credit hour
Student Activity Fee .....	\$ 5.04 per credit hour
Wireless Access Fee (Rangely Campus Only) .....	\$ 1.00 per credit hour

### **Other Charges**

Registration Fee (all students—non-refundable) .....	\$ 12.05 per semester
Medium- and High-Cost Course CIP fee.....	\$ 6.35 per credit hour
Course Charge .....	Vary per class
Library Fines .....	Vary
Returned Check Fee.....	\$ 20.00

### **Room Charges (Rangely): Per-Semester Rate\*\***

Ross Hall Double .....	\$1,153.00
*Ross Hall Single .....	\$1,735.00
Holland Hall Single .....	\$1,407.00
Holland Hall Apartment (West) .....	\$ 125/week or \$500/month
Nichols Hall Single .....	\$1,353.00

**\*Ross Hall singles will be awarded only if space is available, and student always pays difference between double and single occupancy rates.**

### **Board Charges: Per-Semester Rate**

19 meals per week.....	\$1,915.00/semester
15 meals per week + Bronco points.....	\$1,915.00/semester
14 meals per week.....	\$1,820.00/semester

**\*\*NOTE: A housing deposit of \$200.00 per student is required for all College housing.**

## Determination of Residency Status for Tuition Purposes

The determination of a student's residency status for tuition purposes is determined under State Law Title 23, Article 7, Colorado Revised Statutes 1973, as amended. A student's tuition classification is determined before or at the time of registration. If, at a later date, the student believes that the residency classification is no longer correct, he or she may petition for a change of residency classification.

Petitions must be submitted to the Admissions and Records Office no later than 30 days prior to the first day of registration of the semester in which a student wishes to change. Any student who is denied residency after petitioning may appeal that decision. The appeal must be submitted to the Admissions and Records Office no later than two weeks after the negative decision has been sent to the student. A Residence Classification Appeals Board will meet to make the residence determination. The decision rendered by the appeals board is the final College determination.

Members of the armed forces (or their dependents) may be granted in-state status upon moving to Colorado on permanent change-of-station basis. The following documents must be provided within 30 days of the start of the semester in which the student enrolls:

- Certification from the base personnel office that you (or your parent) are on active duty with a permanent duty station in Colorado
- A photocopy of your military or dependent ID card

Please re-submit your documentation to the Admissions and Records Office for each semester that you wish to be classified as a resident.

State institutions of higher education charge resident tuition rates to honorably discharged veterans. State institutions of higher education may also extend the resident rate to spouses and dependents of veterans. This legislation will allow for:

- Honorably discharged veterans who reside in Colorado and maintain a permanent home in Colorado to be classified as residents.
- An honorably discharged veteran who moves into the state after leaving the armed forces will no longer have to wait 12 months after relocating to obtain the resident tuition rate.
- Enlisted members of the military who are currently stationed in Colorado and receive the resident tuition rate for themselves or their dependents will be able to continue to pay resident tuition rates if they leave the military. Previously, military personnel who separated from the military were reclassified as a nonresident and had to wait 12 months to reestablish residency.

Students who receive resident tuition classification as a result of this legislation are not counted as resident students for any other purpose; however, these students shall be eligible to receive a stipend from the College Opportunity Fund.

Questions regarding residency (tuition) status should be referred only to the Registrar. Opinions of others are not official or binding upon the institution. Residency of non-emancipated minors shall be that of the head of the family.

## **College Opportunity Fund (COF)**

The State of Colorado has put aside money to help with tuition expenses. The COF stipend is worth \$62 per credit-hour for the 2012-2013 academic year. You must apply for COF in order to receive the benefit. There are no income qualifications; however, you must be eligible for in-state tuition. You only apply once – then simply authorize the use of your stipend for your eligible undergraduate courses, provided you have not met your 145 credit lifetime limit. If you have not yet done so, apply for your stipend at [www.cncc.edu](http://www.cncc.edu), and click on the College Opportunity Fund logo in the lower right-hand corner of our homepage.

## **Western Undergraduate Exchange**

WUE is a program of the Western Interstate Commission for Higher Education (WICHE). Through WUE, students in most western states may enroll in many two-year and four-year college programs at a reduced tuition level-150 percent of the institution's regular resident tuition. WUE's tuition is less than non-resident tuition. To be eligible for WUE, a student must be, and remain, a resident of one of the participating states: Alaska, Arizona, California, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington or Wyoming. If you have moved to Colorado within the past 12 months from one of the qualifying states to attend college, you may be eligible for the program. No semesters in which a student is classified as WUE may be counted towards the 12 month domicile requirement to establish Colorado residency.

To be eligible for WUE, CNCC requires that new students fill out the WUE application located in the Admissions and Records office, and first-time students have a cumulative high school GPA of 2.0 or higher, as documented by submission of the students official high school transcript, or submission of a GED certification. Transfer students must also have a cumulative GPA of 2.0, as documented by submission of transcripts from all previously attended colleges. The application and the final transcripts must be submitted no later than 30 days after the first day of the semester for which you are applying. If the application and transcripts are not received by then, you will receive WUE for the following semester if all requirements have been met.

Programs not eligible for WUE are Dental Hygiene, Nursing, and the NPS Academy. WUE also does not apply to CCCOnline classes.

Please contact the Admissions and Records Office if you have questions about this program.

## **Determination of In-District Residence for Tuition Assistance Purposes**

Provided in-state requirements have been met, establishment of bona-fide residence within the Rangely Junior College District requires that a person resides within the District on a full-time basis for six consecutive months with the expectation of continuing residency on a permanent, year-round basis. Things that demonstrate permanent residence are employment, the student/parent ownership of property or a business within the College District. Residency of non-emancipated minors shall be that of the head of the family. Living in Rangely specifically to attend CNCC does not qualify a student for in-district status. Student employment or temporary work will not be considered as criteria in establishing residency for tuition purposes.

## **Determination of Affiliated College District Residence for Tuition Assistance Purposes**

Provided in-state requirements have been met, establishment of a bona-fide residence within the Moffat County Affiliated Junior College district requires that a person resides within the District on a full-time basis for six consecutive months with the expectation of continuing residency. Residency of non-emancipated minors shall be that of the head of the family. Living in Rangely specifically to attend CNCC does not qualify a student for in-district status. Student employment or temporary work will not be considered as criteria in establishing residency for tuition purposes.

## Tuition Payment Policy

A student, by the act of registration, automatically incurs a financial obligation to CNCC. This obligation must be satisfied by appropriate payments to CNCC. This means that a student who registers for one or more classes is obligated to pay the full amount of his/her tuition and fees, whether or not the student attends class.

Students may choose one of two payment options:

- 1) full payment can be made at registration, or
- 2) payments can be made in three installments, with one-third due at registration.

Students who wish to pay in installments **must** make arrangements with the Account Receivable Office and sign a promissory note. There is a \$10.00 processing charge for promissory notes.

Summer Payments: All charges related to summer programs are due in full fifteen (15) days after the first day of class.

Students who anticipate receiving financial aid and who have their financial aid application completed **prior to registration** will be asked to pay only the portion of the bill that will not be covered by financial aid. For those who **have not completed** their financial aid application, one of the two methods described above must be elected. Any subsequent financial aid money received will be returned to the student to the extent that the bill has already been paid.

Financial aid is disbursed onto the student's accounts receivable account after the drop date of the student's classes, so this date may not be the same for everyone. Credit balances are refunded to the student within 14 days through the Higher One debit card.

Students who fail to meet their financial obligation to CNCC will not be allowed to register, receive a diploma, or receive transcripts of the courses completed until all financial obligations to the College have been met. In addition, no information (dates of attendance, degrees awarded, courses taken, etc.) will be provided to a third party as long as a student has an outstanding balance on his or her account. If the account is placed in the hands of an agency or attorney for collection or legal action, the student will become obligated to pay additional costs incurred and permitted by the laws governing these transactions.

**Students always have access to their billing statement through Crossroads CNCC on the Student Finance Tab.** Students can also pay online from this tab. CNCC will accept Check, Money Order, Cash, Visa, Discover, and Master Card. There will be a \$20.00 charge for all returned checks.

### Students Sponsored by a Third-Party Agency

A valid letter of sponsorship must be on file in the Accounts Receivable Office. Students must make arrangements for agency billing with Accounts Receivable in accordance with payment deadlines.

***Students are responsible for any charges not covered by their agency and are subject to late fees and refund guidelines.***

It must be understood that each student is responsible for payment of his/her own expenses. The College is not responsible for making payment arrangements with parents, guardians, international agencies, or other third parties.

## **Refund Policy**

The College will refund 100 percent of tuition and student fees collected if the student **officially** drops courses, **in writing**, through the Admissions and Records Office, or online through Crossroads CNCC, Student Tab – Registration block, during the first 15 percent of the term (or class) for which tuition and fees were paid. There will be no refund if the student withdraws after the first 15 percent of the class or if a student fails to drop the course through the add/drop process, even if the student never attends the class. (Courses cannot be officially dropped via telephone.)

If a refund is requested, and a student has received financial aid, a portion of the refund may have to be returned to the Financial Aid program from which it came. Students are responsible for checking with the Financial Aid Office for information pertaining to this policy and to determine how the refund will be applied to financial aid programs. Refunds are made within 30 days after withdrawal/drop forms are received in the Accounts Receivable Office.

To receive a refund for a short class (one to five days in duration), students must submit a drop form to the Admissions and Records Office two working days prior to the first day of class. Some courses have special charges to cover expenses external to the college, have early refund dates, or may be non-refundable. Check class schedules or advertisement sheets for specific course information.

A full refund will be granted for classes canceled due to insufficient enrollment or closed due to student enrollment limits.

For more information on payments or refunds, call the Accounts Receivable Office at 1-800-562-1105, ext. 3277.

## **Residence Hall Deposit (for college-owned housing)**

If written notification of contract cancellation by the applicant is given to the College and postmarked no later than June 30, the housing deposit will be refunded. If a housing application is received after June 30, written notification of cancellation must be received within two weeks of receipt of the housing application. If written notification is received after the above deadlines, the housing deposit will be forfeited.

## **Room and Board (for college-owned housing)**

Refunds for room and board will be made on a prorated basis through the first nine weeks of the academic semester. Students will be charged ten percent of the total semester rate for each week or partial week of residence hall occupancy, beginning with the date of check-in. No refund will be made to students who leave the residence hall after completion of the ninth week of classes.

## **FINANCIAL ASSISTANCE**

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A wide variety of financial assistance programs are available to both full-time and part-time degree/certificate seeking students. Since the extent of support and qualifying conditions are changed periodically by sponsoring agencies, the list that follows should be thought of as representative only. Current information is found at [www.cncc.edu](http://www.cncc.edu) under the "Students" menu. Additionally inquiries concerning the most recent information should be addressed to the Office of Financial Aid at Colorado Northwestern.

Decisions on financial aid will not be made until after the student has been accepted for admission to the college.

Students applying for financial aid should complete the Free Application for Federal Student Aid (FAFSA). The FAFSA is available on the Internet at <http://www.fafsa.ed.gov>. This form should be completed after the Federal Income Tax 1040/1040A/1040EZ has been filed. The paper process for completing the FAFSA will take three to six weeks. Completing the FAFSA on the web will greatly reduce the processing time. Approximately 30% of all financial aid applicants are pulled for verification and will be asked to provide additional documentation to the Financial Aid Office. Financial aid recipients, with files completed by May 1<sup>st</sup>, will receive first consideration for financial assistance. Applications received at the College after that date will be considered for any funds still available.

In addition to the Free Application for Federal Student Aid (FASFA), students applying for financial aid must complete Colorado Northwestern's "Financial Aid Student Information Form," available from the Office of Financial Aid or on CNCC's website, under Financial Aid, then forms and applications.

For financial aid purposes, full-time status is 12 credits and above, three-quarter-time status is 9-11 credits, half-time status is 6-8 credits, and less-than half-time is 5 credits and under.

### **TYPES OF GRANTS/SCHOLARSHIPS**

#### **Federal Pell Grants**

Federal Pell Grants are to help undergraduate students pay for their education after high school. It is the largest need-based student aid program. The Department of Education uses a standard formula, established by Congress, to evaluate the information students report when they complete the FAFSA. The formula determines Expected Family Contribution (EFC). Students with an EFC below a certain amount, will be eligible for a Federal Pell Grant, assuming they meet all other eligibility criteria. Federal Pell Grants are pro-rated when a student is below full-time status.

#### **Federal Supplemental Educational Opportunity Grants**

Students demonstrating significant financial need, as determined by completion of the FAFSA, may be eligible for a Federal Supplemental Educational Opportunity Grant (FSEOG). Priority is given to students with an EFC of 300 or less. The value of an FSEOG at CNCC may vary from \$200 to \$2,000 per year.

#### **Institutional Grants and Scholarships**

Colorado Northwestern Community College has a variety of scholarships and grants available for both new and continuing students at all CNCC campuses and service area centers. All applicants must be U.S. Citizens and must be planning to enroll in a degree or certificate program. The applications can be obtained directly from the Financial Aid Office or by accessing the Financial Aid section of the CNCC website under forms and applications.

**CNCC Presidential Honors Scholarship**

Applicants for this scholarship must be either the Valedictorian (minimum 3.75 GPA) or a graduating senior with a 4.0 GPA.

Other requirements: Colorado resident; full-time attendance; degree-seeking; service obligation of 20 hours per semester; final high school transcript

Annual Award: Tuition, fees, room (double occupancy) and board (or the equivalent for student attending the Craig Campus), \$500 toward books

Renewable upon the completion of 24 credit hours with a cumulative GPA of 3.00.

(Recipient not eligible for Vice-President's Scholarship)

**CNCC Vice-President's Scholarship (Rangely Campus)**

Applicants for this scholarship must be first-time Freshman with a minimum 3.4 cumulative high school gpa.

Other requirements: Full-time attendance on the Rangely campus; degree-seeking; final high school transcript

Annual Award: \$2,000, renewable upon the completion of 24 credit hours with a cumulative GPA of 3.00.

**CNCC Dean's Scholarship (Rangely Campus)**

Applicants for this scholarship must be first-time Freshman with a cumulative high school gpa of 3.0 to 3.39.

Other requirements: Full-time attendance on the Rangely campus; degree-seeking; final high school transcript

Annual Award: \$1,000, renewable upon the completion of 24 credit hours with a cumulative GPA of 2.5.

**Spartan Times Scholarship**

This is a service-based award. Applicants for this scholarship must be members of the student newspaper, The Spartan Times.

Other requirements: Full-time attendance; degree-seeking

Applications will be available in the Spring to students who continue to participate from fall to spring.

Spring Awards Only: Variable

**Learning Community Scholarship**

Applicants must be accepted into a Learning Community

Full-time attendance on the Rangely campus and degree-seeking. Can be combined with other available CNCC Scholarships.

Annual Award: \$2,500

### **Athletic Grants (Rangely Campus)**

A limited number of Athletic Grants in varying amounts are available to outstanding high school athletes. These grants are awarded in all varsity sports supported by the College.

At the present time, athletic grants are available for men in baseball, basketball, rodeo and for women in softball, basketball, volleyball, and rodeo.

Each individual must apply for federal and state financial aid through the Free Application for Federal Student Aid (FAFSA) and the Office of Financial Aid in order to be considered for an Athletic Grant. Athletic Grants are not processed until the financial aid application process is complete. Financial aid awards are applied to student-athletes' accounts **before** athletic grants are applied.

Grants are awarded by the Colorado Northwestern Athletic Department and may be renewed each year, subject to the academic/athletic requirements of the College and those of the National Junior College Athletic Association.

### **CNCC Foundation Scholarship**

Each year the CNCC Foundation provides scholarship opportunities to students attending Colorado Northwestern Community College. Some scholarships are program specific, while others are more general. A full listing of scholarship opportunities is available in the Financial Aid Office.

### **State-Funded Student Assistance Programs**

The primary purposes of state-funded student financial aid are to provide financial resources to students who would otherwise be unable to pursue postsecondary education and to recognize and recruit outstanding students.

### **Colorado State Grant ("Colorado's College Responsibility Program")**

The Colorado State Grant program is designed to assist needy Colorado residents who have demonstrated the least ability to pay for higher education, as determined by completion of the FAFSA. This grant program is available to students enrolling at least half-time (6 credit hours per semester). A level system for determining eligibility has been established by the State.

Level 1: Students with the least ability to pay (Expected Family Contribution (EFC) must be below 150% of that required of a Pell Grant). The maximum award for this group of students is \$850, unless the remaining unmet need after other aid funds is less.

## **LOANS**

### **Federal Perkins Loan**

Where need has been determined in accordance with established procedures, the student may borrow a total of \$10,000 in a two-year period. The interest rate is 5%. Repayment of these loans commences nine months after the student leaves the school or completes his/her education. Up to 10 years may be allowed to repay the loan. The amount of payments depends upon the size of the debt, but usually at least \$50 per month must be paid. The school can agree to a lesser amount, but it must be due to extraordinary circumstances, such as prolonged unemployment.

If a student defaults on a Federal Perkins Loan and the school is unable to collect, the federal government will take action to recover the loan. All loans are reported to a national credit bureau.

### **Federal Direct Loan Program**

CNCC is a Direct Lending school. In this loan program, the funds are obtained directly from the U.S. Treasury. This process involves fewer participants and provides a single point of contact for the school and the student/parents

The Direct Loan Program allows students to borrow low-interest loans to assist in meeting the costs of higher education. Depending on students' financial need (cost of attendance less expected family contribution), the loan may be subsidized (the federal government pays the interest) or unsubsidized (the borrower pays the interest).

If a student's loan is subsidized, the federal government pays the interest while the student is enrolled at least half-time and during a six month grace period. Repayment for interest and principal begins six months after the student has graduated or is no longer enrolled in at least six credit hours. If applicable, origination fees will be deducted prior to disbursement of funds. Students must complete a FAFSA to determine loan eligibility.

The loan program also encompasses the Federal PLUS Loan. Parents of dependent students may borrow up to the cost of education minus any other resources, provided they have good credit histories. Origination fees are deducted prior to disbursement of funds. Repayment begins 30 days after the final disbursement for the year. For additional information on lender choice, please contact the Financial Aid Office. Students must complete a FAFSA.

### **Work-Study Program**

Colorado Northwestern is an Equal Opportunity Employer, which provides work opportunities to numerous students each year. The College adheres to the regulations set forth by the Department of Health, Education, and Welfare and the Colorado Commission on Higher Education, both of which govern the work-study and student employment programs.

### **Colorado Work-Study Program**

The Colorado Work-Study Program is an employment program designed to allow Colorado resident undergraduate students to earn funds to assist in attending eligible educational institutions in Colorado. Employment may be on-campus or with non-profit organizations off-campus. Qualifying students average 10 to 20 hours per week and earn between \$1000 and \$3000 per academic year.

### **Federal College Work-Study Program**

The Federal Work-Study Program, administered by the Office of Financial Aid, provides part-time employment opportunities for qualified students. Students average 10-20 hours per week and earn between \$1,000 and \$3,000 per academic year.

### **Institutional Work-Study Program**

A limited amount of funding is available through the institution for students who do not qualify for either Federal or Colorado work-study funds. Students average 10-20 hours per week and earn between \$1,000 and \$2,000 per academic year.

### **Veterans Assistance**

All programs are approved for the training of veterans. All pertinent VA regulations are adhered to, including those pertaining to refunds.

Veterans apply for benefits online at [www.gibill.va.gov](http://www.gibill.va.gov) under the educational benefits area using VONAPP. Six to 8 weeks after completing the application, the veteran will receive a Certificate of Eligibility. A copy should be submitted to the CNCC VA Certifying Official at CNCC, 500 Kennedy Drive, Rangely, CO 81648. If a Veteran has received benefits in the past and is transferring to CNCC, a Change of Place of Training must be completed and a copy sent to the Certifying Official.

Students who wish to qualify for Veterans Administration educational benefits should be prepared to finance their living expenses for a period of at least sixty days. This is the normal length of time required to complete a veteran's file in the regional office and for the issuance of monthly payments.

### **Regulations Concerning Satisfactory Progress**

Students receiving financial aid or VA benefits have a responsibility to maintain certain academic standards and make satisfactory academic/incremental progress toward their degree or certificate.

Financial aid applicants must maintain academic/incremental progress on **all academic studies** whether or not they received financial aid.

This criterion represents minimum standards, which students must meet. The standards are based on full-time, three-quarter time, and half-time attendance in the degree or certificate program. In order to maintain satisfactory **incremental progress**, students must complete a minimum of 67% of CUMULATIVE attempted credits hours. For satisfactory **academic progress**, students must maintain a cumulative grade point average of 2.0.

Students failing to meet these requirements will be placed on financial aid *Warning* for one semester. Students failing to meet the progress requirements a second semester will be placed on financial aid *Suspension*. Reinstatement will be made only after students have completed the requirements to be considered making satisfactory progress.

Students will be eligible for financial assistance for up to 150% of the number of credits required to complete their degree/certificate program. Students who have attempted 110% but less than 150% of the required number of credits needed for their degree or certificate program will be placed on financial aid *Alert*.

If further information is desired, contact the Office of Financial Aid and request a copy of the Standards of Satisfactory Academic/Incremental Progress.

## Rights of Appeal

Students who feel that mitigating circumstances prevented them from maintaining satisfactory progress may appeal the financial aid suspension. A special appeal form must be completed and submitted to the Financial Aid Office. The appeal will be reviewed by a committee that will recommend continuation or suspension of financial aid to the Director of Financial Aid.

## Student Records

Students and parents should be aware that all records and conversations between students, parents, and financial aid staff are confidential and that no public announcements shall be made of amounts awarded to individual students.

Special Note: If further information concerning grants, loans, and work-study is desired, visit our website at <http://www.cccc.edu/cms/content/financial-aid-welcome> or contact the Office of Financial Aid at (970)675-3204 or 1-800-562-1105 ext. 3204



## STUDENT SERVICES

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The College is committed to providing students with a variety of educational and developmental opportunities, both within and outside the classroom. Responsibility for student development in areas complementary to the formal classroom environment rests with the Student Services staff, who foster programs that facilitate the student's social, cultural, emotional, academic, and recreational growth.

### Health Services

The College does not provide insurance coverage for students. Each student is encouraged to have sufficient health insurance at enrollment. For students requiring health insurance, such as athletes, the College will provide the student with an optional plan that may be purchased by the student through an insurance vendor.

Colorado Northwestern does not offer an on-campus health clinic. Students in Rangely can receive medical services through the Rio Blanco County Health Department (970) 878-9525, Rangely Family Medicine (970)675-2237 and Rangely District Hospital (970) 675-5011, and in Craig through Memorial Hospital Medical Clinic (970) 824-9411, Family Practice (970) 824-2400, Specialty Clinics (970) 824-2420, or Moffat Family Clinic (970) 824-3252 .

## STUDENT LIFE AND HOUSING

### Student Government (Rangely) Student Senate (Craig)

The Associated Students of Colorado Northwestern Community College are the representative bodies and official voice of the students at CNCC in Rangely and Craig. These two groups play a vital role and work closely with College administration in developing and shaping student policies, expressing student opinions, and coordinating student activities and programs.

The Department of Student Life strives to provide meaningful, educational, extracurricular, and recreational development as an integral part of one's experience at CNCC.

**Activities:** Student Life provides a variety of activities and leadership roles for student participation. Activities include student sponsored events, as well as paid performers.

**Intramurals:** The opportunity to organize and participate in intramural activities is available to all students. Examples of activities include co-recreational basketball, volleyball, sand volleyball, softball, golf, racquetball, dodge ball, pool, cards, tennis, and arena football leagues, as well as various intramural tournaments.

**Outdoor Recreation:** The Outdoor Recreation Program provides students on both campuses with an opportunity to experience and plan many outdoor excursions. Through this program, students are able to experience the very essence of Northwestern Colorado through whitewater rafting, rock climbing, skiing, x-country skiing, biking, canoeing, camping, hiking, and fishing.

### Student Housing (Rangely)

The Rangely Campus has three co-ed residence halls on campus, which can house 225 students. Ross Hall is primarily double-occupancy. Single rooms are offered in Nichols Hall. Holland Hall is reserved for NPS Academy students. The residence hall areas are staffed with two full-time housing employees, and a supporting staff of 10 to 12 resident assistants. The residence hall staff enforces hall policies and provides educational programming for residents. Alcohol, drugs, tobacco, and weapons are prohibited. Refer to the *CNCC Student Handbook* for further information.



### **Freshmen Live-In Requirement**

All freshmen attending the Rangely campus are required to live in the residence halls and participate in the board plan their first year at CNCC. Students who are 21 years of age, married, single parents, or living with a parent/guardian or close relative are not required to live on campus.

### **Deadline for Housing Application**

Housing assignments for residence halls will not be made until the housing application, housing contract, and housing deposit have been received. Once these items have been received, the housing assignment will be made on a priority system based on the date they were received.

If written notification of contract cancellation by the applicant is given to the Department of Student Life and postmarked no later than June 30, the housing deposit will be refunded. If housing applications are received after June 30, written notification of cancellation must be received within two weeks of receipt of the housing application. If written notification is received after the above deadlines, the housing deposit will be forfeited.

### **Off Campus Housing**

If you are not planning to live on campus we offer the following resources. The College does not recommend or endorse any of these listings.

Raven Realty- 970.675.2299

## Student Housing (Craig)

Colorado Northwestern Community College does not provide on-campus housing for students. In lieu of that, we offer the following resources. The College does not recommend or endorse any of these listings. This information is provided to you as a service only.

[www.craig-chamber.com](http://www.craig-chamber.com) ; [www.craigdailypress.com](http://www.craigdailypress.com) [www.craigslist.com](http://www.craigslist.com) <http://craig-colorado.apartmenthomeliving.com>

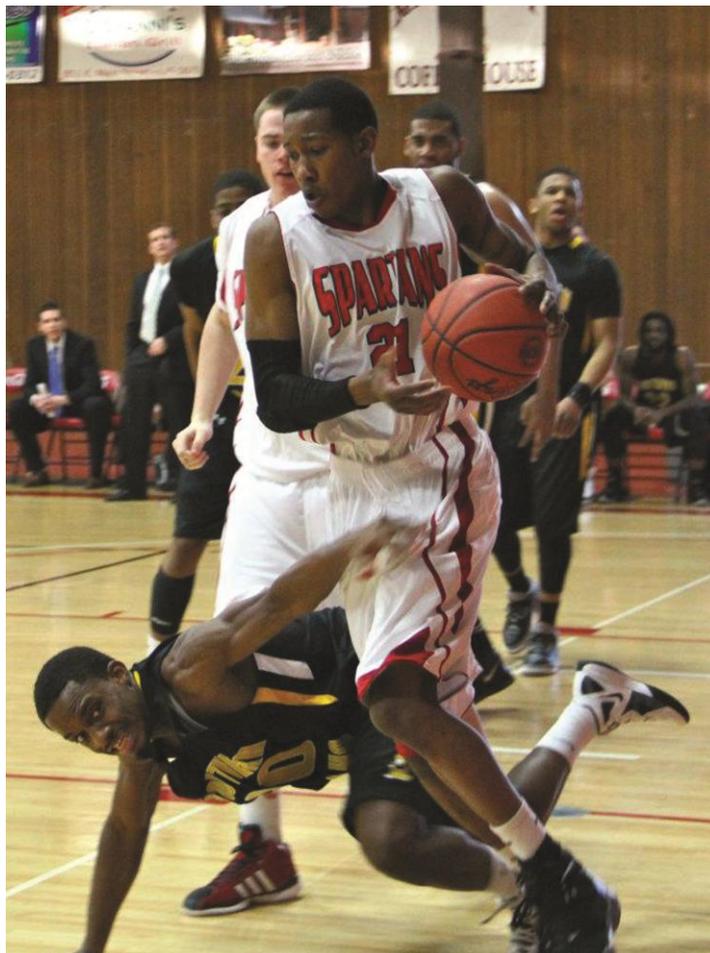
## INTERCOLLEGIATE ATHLETICS

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Intercollegiate athletic competition is offered for Rangely Campus students in men's basketball and baseball, and women's basketball, softball and volleyball. Affiliations include the Scenic West Athletic Conference (SWAC) and the National Junior College Athletic Association (NJCAA) Region 18.

Beginning with the 2011-2012 year, CNCC has added a rodeo team. Cowboys and cowgirls compete in 10 NIRA-sanctioned rodeos each year. CNCC competes in the Rocky Mountain Region.

For more information about CNCC's intercollegiate athletic programs, contact the Dean of Academic Support Services at (970) 675-3341, the Athletic Coordinator at (970) 675-3356, or Information Central at (800) 562-1105.



# ACADEMIC REGULATIONS

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## Academic Council

The Academic Council has the responsibility of approving the College's academic policies and its instructional courses and programs. The Vice President of Instruction and Student Affairs serves as Chairperson. Each instructional department of the College is represented on the Academic Council by one or more selected faculty members. Additionally, the Registrar, the Learning Center Coordinator, and representatives among the other CNCC academic service and support areas serve on the Academic Council.

## Attendance Policy

College faculty believe that regular class attendance is necessary if students are to receive maximum benefits from their work, and students are expected to attend all sessions of the classes for which they are registered. The individual instructor may determine the appropriate attendance and tardiness policy for each class. Such a policy will be clearly outlined at the beginning of each semester. Students have the responsibility of learning the instructor's policy on attendance and abiding by it.

Students should explain the reasons for absence to their instructors. The student is responsible for making up work missed due to any absence, including those involving College-sponsored athletic, academic, or recreational trips.

## Administrative Drop

An Administrative Drop may be issued by a faculty member for a student who has not been to class within the add/drop (census date) period.

## Administrative Withdrawal

The College reserves the right to withdraw a student from one or more classes, or from all classes in which he/she is enrolled if, in the judgment of the Vice President of Instruction and Student Affairs, through consultation with other College personnel, such action is deemed in the best interest of the student and/or the College. Examples of reasons for administrative withdrawal are failure to pay registration tuition and fees; failure to provide admission credentials; failure to remove "holds" in a timely manner; or inappropriate behavior in class, laboratory, or field studies environments. In those instances where the student is administratively withdrawn from class or from the College due to inappropriate behavior in the learning environment, the student shall have the right of appeal to the Vice President of Instruction and Student Affairs, and finally to the President of the College.

*It is ultimately the student's responsibility to officially drop or withdraw from a course through the Admissions and Records Office. Failure to do so may impact a student's grade, official transcript, and College financial account.*

## Student Credit Load

The minimum credit load to be a full-time student during a 16 week semester is 12 credit hours. Students expecting to complete an Associate Degree in two years will typically need to complete between 15 and 18 credit hours per semester. If a student has earned a cumulative grade of "B" (3.0) on a minimum of 15 semester hours of college studies, exclusive of physical education activity courses, he or she may enroll for an overload.

Except where otherwise prescribed by the student's specific program, eighteen semester credit hours is the maximum number of credits for which a student is allowed to enroll during a full sixteen-week semester, six semester hours for a student enrolled in a five-week summer term, nine semester hours in an eight-week summer term, and twelve semester hours for an entire eleven-week summer session. A student may exceed the enrollment limits outlined above only by recommendation of his or her advisor and the approval of the Vice President of Instruction and Student Affairs.

### **Instructional Delivery Methods**

**Classroom Instruction** includes a minimum 15 hours of personal contact per credit hour. Instruction may include lectures, small group discussion, labs, fieldtrips, or other in-person delivery methods.

**Hybrid Courses** are courses that combine online and on-campus instruction. Online instructional activities are substituted for a portion of the required scheduled course time. Internet access and an email address are required.

**Interactive Video** courses can be delivered from any CNCC site via PolyCom. The instructor may be located in Rangely, Craig, or Meeker and students can attend any one of those sites simultaneously. The instructor can see students at the various sites and the students can see the instructor, as well as the other students.

**Virtual Classroom (VC)** instruction is a cutting-edge, educational opportunity for students to enroll in classes from any location where internet access is available. The virtual classroom is a simple concept: Put the instructor in one place, the students elsewhere—wherever it's convenient—and let the class begin. Instructor and students meet in a virtual classroom using the Elluminate Live! Elluminate Live! is a virtual environment optimized for learning. Elluminate supports featuring high-quality voice over the Internet, robust interactive functionality, and supports multiple platforms and low-bandwidth connectivity. Elluminate Live! provides high-quality audio, multi-point video, polling, quizzes, whiteboard, application sharing, file sharing, rich media plus recording.

**CCCOonline** courses are offered by the Colorado Community Colleges Online (CCCOonline) program. CCCOonline courses are taught by instructors across the Colorado Community College System, but will appear on your CNCC transcript if you register for them through CNCC. For details about CCCOonline courses, please consult the CCCOonline website at [www.cconline.org](http://www.cconline.org).

### **Final Examinations**

Final examinations are given in most courses, and students are responsible for taking all assigned final examinations as they are listed in the examination schedule. Final examinations will not be given in advance of the scheduled time.

## Independent Study Policy

Application for Independent Study should be completed by the student and the instructor, and approved by the Dean of Instruction or the Vice President of Instruction and Student Affairs **prior to the beginning of the semester** during which the proposed project will be brought to completion. The following conditions apply:

1. Approvals will be based on
  - a. the student's course load;
  - b. the student's grade point average;
  - c. availability of other courses from the same category;
  - d. assessment of the student's ability to successfully complete the course; and
  - e. extenuating circumstances necessitating the independent study request.
2. A maximum of 12 credit hours may be earned by independent study.
3. Independent study courses shall be completed within the term for which the student registered.

## Credit for Prior Learning (CPL)

Students may earn credit for learning outside the classroom. CPL must apply to a degree or certificate goal. Credit is given for the following:

1. Portfolio: Learning through experiences such as reading and study, work, and on-the-job training or special classes. A \$25.00 charge applies for each portfolio reviewed.
2. Standardized Testing: A satisfactory score on nationally accepted tests such as CLEP, DANTES, and ACT-PEP.
3. Published Guide: Learning in a nontraditional setting such as a military or industry classroom. It must be evaluated in a published guide by a nationally known organization such as the American Council on Education.
4. Challenge Exam: Institutionally approved exam (objective, essay, oral, hands-on, simulated demonstration, etc.) will be used to evaluate the competency of students in specific courses. These examinations are the equivalent of the comprehensive final examination for the courses challenged and are **available only at the option of and with the approval of individual instructors.**

A student may use CPL to fulfill all degree/certificate graduation requirements except for the mandatory 25% residency requirement. All work assessed for CPL must meet or exceed "C" level work. Minimum cut-off scores on standardized tests are set at "C" level work. Prior experience shall be evaluated only if requested by the student.

**No letter grade will be posted on the student's transcript for any of the prior learning methods. The course title, course number, and semester hours only will be posted on student transcripts.**

Credit awarded for prior learning through this policy may not be used to meet residency credit requirements for certificate or degree programs, and a student must be officially enrolled for at least one semester hour of credit at the College to participate in any option. No credit for prior learning will be posted on the transcript unless one semester hour is completed.

Credit awarded may be applied toward the courses included in the core curriculum of general education; however, credit awarded for prior learning shall not be included in the analysis to determine if the transcript will be stamped "core program completed." Students who intend to transfer to a four-year college or university should verify that the Credit for Prior Learning courses will, indeed, apply to the baccalaureate degree or program at that college or university.

## Classification of Students

<b>Freshman:</b>	Student with fewer than 30 passing semester hours of college credit.
<b>Sophomore:</b>	Student with 30 or more passing semester hours of college credit.
<b>Full-time Student:</b>	Student carrying 12 or more semester hours of credit during a semester.
<b>Part-time Student:</b>	Student carrying fewer than 12 semester hours of credit during a semester.

## Grading System:

Grades are earned in each course, and the grade is recorded on the student's permanent record. Grade definitions are as follows:

A.....	Superior (4 grade points per credit earned)
B.....	Good (3 grade points per credit earned)
C.....	Average (2 grade points per credit earned)
D.....	Poor (1 grade point per credit earned)
F.....	Failure (0 grade points per credit earned)
W.....	Withdrawal (not computed in grade point average)
AD.....	Administrative Drop (not computed in grade point average)
AW.....	Administrative Withdrawal (not computed in grade point average)
I.....	Incomplete (not computed in grade point average)
S.....	Satisfactory (not computed in grade point average, but included in hours earned)
U.....	Unsatisfactory (not computed in grade point average, and not included in hours earned)
AU.....	Audit (not computed in grade point average)
R.....	Repeat
Z.....	Grade not yet reported
SP.....	Satisfactory Progress

I - Incomplete	<p>A temporary grade granted in light of an emergency situation, which has prevented the student from completing all requirements of the course on time. It is the responsibility of the student to document/verify the factors that have delayed his/her progress. To be assigned an "I" for the semester, the student must have completed 75 percent of the requirements of the course or show reasonable evidence that he/she can complete the remaining requirements through independent study. After careful consideration of the circumstances, the instructor will assign a date by which the remainder of the student's work must be completed in order to earn credit for the course. (The student must negotiate the conditions of the Incomplete with the instructor <u>before</u> the end of the term of the course.) Otherwise, the requirements of the course must be completed no later than the end of the next 16-week semester. Alternatively, if the instructor perceives that the intervening factors make it likely that the student will not be able to complete the course requirements within the time frame allowed, the instructor may petition the Vice President of Instruction and Student Affairs to grant the student a late withdrawal from the course instead of an Incomplete. In this event, the student may later re-enroll in the course and complete the work in a normal sequence. However, once an Incomplete has been granted, a late withdraw cannot be requested. An Incomplete Form must be completed and signed by both the Instructor and the Vice President of Instruction and Student Affairs and submitted to the Admissions and Records Office prior to the last day of the semester.</p>
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S – Satisfactory      Satisfactory (S) indicates passing in a course taken for pass-fail. A grade of (S) will not affect the overall grade point average, but will increase the total number of credit hours completed. An (S) grade in all CNCC courses represents a performance in the course equal to a C or higher.

Full-time students at Colorado Northwestern are permitted one pass-fail option per semester on a non-cumulative basis. These can be applied only to elective courses and **do not apply to the Associate of Arts or Associate of Science degrees**. Intent to exercise this option must be declared before the add/drop period has expired. Changes from the pass-fail to the standard letter-grading system can be effected only upon approval of a petition directed to the Vice President of Instruction and Student Affairs.

AU - Audit              Indicates the student has audited the course for self-enrichment or to visit the class periodically as a method of reviewing subject matter. The "AU" is placed on the student's permanent record; however, is not computed in the student's grade point average or credits attempted/completed.

Changes "to" or "from" audit status must be made during the registration or add/drop period. The withdrawal procedures apply to audit students; however, the student is not required to regularly attend the class or be evaluated, although regular class attendance and participation is encouraged to assure maximum benefit from the audit experience.

All degree-seeking students, whether full- or part-time, are advised not to take courses on an audit basis as they are not applied towards degree requirements and are not considered as credit hours attempted for financial aid purposes.

W – Withdrawal        Indicates that a student dropped a course after the first 15 percent of the course, but prior to the first 80 percent of the course. A grade of "W" is not computed in the student's grade point average, but is posted on the student's official transcript.

### Computation of Grade Point Average

A three-credit course with a grade of "A" would earn 12 grade points (3 credit hours times 4 quality points). Total grade points accumulated by a student are divided by total credits attempted (excluding W, P, and I grades) to calculate a student's cumulative grade point average, or GPA. Grades awarded for developmental courses will not be included in a student's grade point average.

### Repeating Courses

All college-level courses may be repeated. Each registration for the course and each grade received will be listed on the transcript. On the transcript a notation will follow the course indicating that the course was repeated and designating whether the course will be included in the GPA. The highest grade will be used in the GPA calculation. There will be no limitations on course grades that are eligible for repeat. All credit hours earned for initial and repeated courses will be deducted from a student's remaining COF stipend eligible hours.

"Repeated" courses may be applied only one time to a certificate or degree, except for variable credit courses and designated courses that may be repeated for professional or personal development. Each institution will designate courses that may be "repeated" within program requirements.

Developmental courses are eligible to be repeated. All developmental courses will appear on the transcript. Individual colleges may choose to specify a limit for the number of times a developmental course may be repeated.

## Change of Grade

A grade reported to the Admissions & Records Office may be changed upon recommendation of the faculty member issuing the grade and then upon authorization by the Vice President of Instruction and Student Affairs.

Grade changes must be reported no later than one semester (not including the summer semester) following completion of the course.

## ACADEMIC PROBATION, SUSPENSION, AND EXPULSION

### Academic Standards

During a student's first twelve credits, Colorado Northwestern will monitor satisfactory progress through an Academic Alert process. The academic standards apply to all students who have completed thirteen, 13, or more credits in residence, transfer courses do not apply, while attending CNCC.

Based on course completion and cumulative grade point average (CGPA) standards, students earn an academic standing as follows:

- Good standing CGPA  $\geq$  2.00 for all classes completed in residence.
- Academic Alert Student has completed less than 13 credits with a CGPA  $<$  2.00 for all classes completed in residence.
- Probation (initial) CGPA  $<$  2.00 for all classes completed in residence.
- Probation (continuing) CGPA  $<$  2.00 for all classes completed in residence and last Term Grade Point Average (TGPA)  $\geq$  2.00.
- Suspension (initial) CGPA  $<$  2.00 for all classes completed in residence and last TGPA  $<$  2.00. Student may not register for the next term (fall, spring, or summer) following the suspension term. Student may register for the subsequent term after meeting with an academic advisor of the college. Students with unusual circumstances of a compelling nature may appeal their suspension. Approval of the student's appeal may allow, but does not guarantee, that the student will be allowed to register without a break in enrollment. Students returning from a suspension will be on Probation (continuing).
- Suspension (second) CGPA  $<$  2.00 for all classes completed in residence and last TGPA  $<$  2.00. Student may not register for the next two terms (fall, spring, or summer) following the suspension term. Student may register for the term following the two term break in enrollment after meeting with an academic advisor of the college. Students with unusual circumstances of a compelling nature may appeal their suspension. Approval of the student's appeal may allow, but does not guarantee, that the student will be allowed to register without a break in enrollment. Students returning from a suspension will be on Probation (continuing).

- Suspension (third) CGPA < 2.00 for all classes completed in residence and last TGPA < 2.00. Student is suspended from the college and may not register for two (2) calendar years. Students with unusual circumstances of a compelling nature may appeal their suspension. Approval of the student's appeal may allow, but does not guarantee, that the student will be allowed to register without a break in enrollment. Students returning from a suspension will be on Probation (continuing).

NOTE: Students' transcripts will include the following notation as appropriate: Good Standing, Probation, Continued Probation, and Suspension (Initial, Second, and Third).  
Summer semester will be considered a s term of non-enrollment.  
Academic standing at one institution does not affect academic standing at another institution.

The resources of the college's faculty, Learning Assistance Programs (Rangely and Craig Campuses), and the various CNCC advising and counseling services are available to assist students in improving their academic standing, but the final responsibility rests with the student. Specific programs may have additional academic standards. It is the student's responsibility to learn the academic policies for his/her specific program.

### **Expulsion**

Expulsion from the college shall mean that the student is not allowed to enroll for any classes at the college for four semesters, including the summer semester. Expelled students wishing to re-enter the College must make application for readmission and will be readmitted at the discretion of the Vice President of Instruction and Student Affairs.

### **President's Academic Distinction List**

Any student who completes 12 or more credit hours (not including developmental courses) in one semester and maintains a GPA of 4.0 will be placed on the President's Academic Distinction List.

### **Dean's List**

Any student who completes 12 or more credit hours (not including developmental courses) in one semester and maintains a GPA of 3.5 to 3.99 will be placed on the Dean's List.

### **Recalculation of Grade Point Average**

A student who re-enrolls at Colorado Northwestern Community College after an absence of two or more years may petition the Vice President of Instruction and Student Affairs to have his/her cumulative hours recalculated. The petitioning student must be enrolled and have completed at least 6 hours with a 2.0 minimum GPA. Up to 30 credits can be excluded from the GPA. If the petition is approved, the student resumes his/her academic program and begins with a new cumulative grade point average. All courses taken will remain on the permanent record, but only courses with marks of "A", "B", or "C" will be allowed toward degree requirements and count in the total hours earned.

## Transcripts

The Records Office will send a transcript of credits to other collegiate institutions or outside agencies with **a written request** signed by the student. Official transcripts are free. No transcripts will be released as long as the student has outstanding obligations (financial or otherwise) at Colorado Northwestern.

The transfer of academic credit to the college is governed by the following policies and procedures:

- Courses accepted in transfer **MUST** match the content and meet or exceed the rigor of the accepting institution as determined by the professional judgment of the Transfer Evaluator or Department Chair.
- Transfer credit is accepted as specified by legislated and Colorado Community College System (CCCS) articulation agreements.
- The college may examine credits to insure that the content is not outdated or obsolete.
- Courses will be evaluated against the Colorado Common Course Numbering System (CCCNS) Catalog.
- The official transcript will include courses taken at the institution and those transfer credits requested by the student.
- Courses will be transcribed with CCCNS course number, title, prefix and the number of credits awarded by the transferring institution.
- Grades for transfer courses will be recorded, but will not show on the official transcript or be reflected in the student's GPA.
- Pre-requisite courses below the 100 level will not be accepted in transfer, but will be noted in the student's academic record.
- A grade of "C", "P", "S" or better is required for transfer. Transfer credit will not be awarded for courses with "D", "F" or "U" grades. Individual colleges may choose to grant an exception to this rule and accept transfer courses with a grade of "D" on a case-by-case basis.
- Credits earned at the home institution with a grade of "D" may be applicable to a degree or certificate as determined by the program.
- Transfer courses that have the GT (Guaranteed Transfer) designation will be flagged as GT courses. If the course is not present in the CCCNS then it will be transcribed with the prefix GTP for GT-Pathways, the course number 999 and the course title that matches the GT designation, ex., CO1, AH3, MA1, etc.
- Transfer credits will be awarded as governed by CCHE and State Board policies and System President procedures.

## **Transfer Dispute Appeals Process**

Students may file an appeal if they feel that coursework was not properly evaluated.

1. Student should meet with the Transcript Evaluator and/or the Registrar to request clarification within 10 calendar days of the date of the evaluation.
2. The appeal must be submitted to the Director of Admissions and Records in writing within 15 calendar days of the date of the evaluation.
3. The decisions regarding course transferability and/or placement made in the initial transcript evaluation will be binding if the student fails to file a written appeal within 15 calendar days.
4. The Transfer Credit Appeal Committee will have 30 calendar days to review the student's appeal and inform the student in writing of the committee's decision on the appeal including the rationale for that decision. In addition, the student shall be informed in writing of the process for appealing this decision.
5. The student is informed by the committee of the remaining appeal options. Failure to do so will result in the committee's decision being considered null and void. The student's request prevails and cannot be overturned by the college.

Appeals beyond the initial decision should be made in writing to the Vice President of Instruction and Student Affairs, within 15 calendar days of the postmark date of the letter notifying the student of the committee's decision. If the student fails to file an appeal within this time period, the original or initial decision shall be binding. The college will hear and reach a decision on the appeal within 15 calendar days after the appeal is filed. Next, the student will be notified in writing by the college of its decision regarding the transfer appeal and the rationale for the decision. In addition, the student may appeal the decision to CCCS.

## **ACADEMIC INTEGRITY**

The foundation of a college is truth and knowledge, each of which relies in a fundamental manner upon academic integrity, which is diminished significantly by academic dishonesty. A pervasive attitude promoting academic integrity enhances the sense of community and adds value to the educational process. All at Colorado Northwestern Community College are responsible for and affected by the cooperative commitment to academic integrity.

Colorado Northwestern considers academic dishonesty to be a serious offense, which will be dealt with by appropriate disciplinary action.

### **Cheating**

The word "cheating" refers to the acts of giving, utilizing, or receiving unpermitted aid during examinations or in the preparation of homework, reports, or any other class work that the instructor will use as a basis for evaluation. The following are some specific examples of cheating; however, these examples are not necessarily the only forms of cheating. Students are cheating if:

- they prepare, prior to an exam, written information, which they then use during the exam without the instructor's knowledge or permission.
- they obtain from or give to another student any unpermitted information during an exam or while preparing class work.
- they change the answers on an exam or an assignment after it has been returned, and then ask the instructor to re-grade that exam or assignment.
- they have another person prepare reports or take exams for them.
- they turn in, as their own, written assignments or reports that have been either purchased or borrowed from another source.

## Plagiarism

The word “plagiarism” refers to the use of another person’s work without giving proper credit to that person. When copying verbatim (i.e., words, phrases, sentences, or entire passages) or paraphrasing another person’s work (i.e., borrowing but rewording that person’s facts, opinion, or ideas), a student must give proper credit through the use of appropriate documentation.

### Actions Taken Against Academic Dishonesty

If an instructor detects an act of academic dishonesty, the following actions will be taken:

1. The instructor will award a zero for the assignment or exam.
2. The instructor will meet individually with the student to discuss the incident. The instructor will insure the student understands how to give proper credit through the use of appropriate documentation if the incident involves plagiarism.
3. The instructor will send written notification to the Dean of Instruction along with all documentation supporting the claim of academic dishonesty.
4. The Dean of Instruction will send written notification to the student indicating he or she has been reported for violating Colorado Northwestern’s academic integrity policy and informing the student of the actions that will be taken.
5. The student will be prohibited from dropping or withdrawing from the course in order to avoid a failing grade resulting from an academic dishonesty sanction. Written notification will be sent to the Registrar prohibiting such action.

Should the Dean of Instruction receive a second notification for a violation of academic integrity (from the same course or from any other CNCC course in which the student is enrolled), the following actions will be taken in addition to the above actions:

1. The student will be placed on disciplinary notice and will remain on disciplinary status for the remainder of their enrollment at Colorado Northwestern.
2. The student will be required to meet personally with the Dean of Instruction to discuss the seriousness of academic dishonesty and consequences for further violations.

Should the Dean of Instruction receive a third notification for a violation of academic integrity (from the same course or from any other Colorado Northwestern course in which the student is enrolled), the following actions will be taken:

1. The student will immediately be suspended from the college for one academic year. The Dean of instruction will meet personally with the student and present a written letter of suspension
2. The student will receive a grade of “F” in the course for which he or she has been reported for dishonesty and a grade of “W” for all other courses in which the student is enrolled. A copy of the Dean’s letter will be sent to the Registrar, and the letter will be maintained in the student’s permanent student file.

### **Applying for Re-Admission after Suspension for Academic Dishonesty:**

A student wishing to reapply to Colorado Northwestern after being suspended for academic dishonesty will be required to write a letter to the Vice President of Instruction indicating a desire to be readmitted. The letter should include information or verification that supports the student's commitment to academic integrity should he or she be readmitted. The Vice President of Instruction and Student Affairs will notify the student in writing of his or her decision to readmit and send a copy of the letter to the Registrar.

### **Academic Appeals Procedure**

The purpose of the academic appeals procedure outlined below is to secure equitable solutions to problems of an academic nature that affect a student's academic progress.

#### **Timelines for Submission of an Appeal:**

- All academic appeals must be submitted in a timely fashion. Formal academic actions (suspension, dishonesty policy sanctions etc.) must be filed within ten days of notification to the student.
- Final grade appeals must be initiated by the student within thirty calendar days of the awarding of the grade.

#### **Academic Appeal Process:**

1. The student will meet with the instructor and attempt to resolve the problem.
2. If a resolution cannot be reached between the student and the instructor, the student may request to meet with the instructor and the program director. An attempt will be made to reach an acceptable resolution.
3. If the issue is not resolved with the instructor and the program director, the student may submit a written statement to the Vice President of Instruction and Student Affairs describing the exact nature of the complaint and the remedy the student is seeking. The written appeal must be submitted within the specified timelines noted above.
4. The Vice President of Instruction and Student Affairs will review the statement and, at his or her discretion, reach a decision or convene an administrative hearing. If the Vice-President deems it necessary to convene an administrative hearing, appropriate committee members will be selected by the Vice President based on the nature of the appeal. The student and the instructor may submit to the hearing committee written statements by other individuals having information regarding the complaint. The committee may request a personal meeting with the student, the faculty member or others as appropriate.
5. Following either the decision of the Vice President of Instruction and Student Affairs or the administrative hearing, both student and instructor will receive written notification of the decision within ten calendar days.

**Petition for Review:** Subsequent to the appeals decision by the Vice President of Instruction and Student Affairs, the student may submit a written request to the President for review of the proceedings. The Petition for Review must be submitted within ten calendar days of the notification of the initial decision. Failure to meet the ten-day deadline will result in the initial decision made by the Vice President of Instruction and Student Affairs as being final and not subject to additional review.

**Note:** Appeals/grievances of a non-academic nature are filed with the Dean of Student Support Services (Rangely) or the Dean of Instruction (Craig) in accordance with current student grievance procedures.

## Assessment of Student Learning

CNCC believes it is important to assess students' progress toward achieving their learning goals. Reviewing student assessment results helps College faculty and administration make changes that help improve teaching, learning, and student satisfaction. CNCC has identified two general education outcomes as priorities: 1) To equip students with skills necessary for creative problem solving, critical thinking, and analysis of values, and 2) To equip students with the communication skills necessary for effective listening, speaking, reading, and writing. The Test of Everyday Reasoning (TER), given at numerous colleges throughout the nation, is an assessment instrument used to measure critical thinking skills. It is an untimed, paper-and-pencil test that takes approximately 45 to 60 minutes to complete. Because CNCC believes so strongly in the value of assessing what students have learned, the TER is a **requirement** for both incoming freshmen and graduating sophomores. Test results are published annually on the CNCC Website.

## Graduation Requirements

Colorado Northwestern grants the degree of Associate of Arts, Associate of Science, Associate of Applied Science, Associate Degree in General Studies, and the Certificate of Completion. Students must meet degree/certificate requirements outlined in the College Catalog, maintain a minimum cumulative grade point average of 2.0 on all work attempted at CNCC, and maintain a minimum cumulative grade point average of 2.0 in all courses to be applied to the certificate or degree. Students desiring to obtain multiple degrees from CNCC (example – an AA and an AS), must have 12 unique credits applied to each degree. Certain programs may require higher standards on coursework applicable to the degree. Such requirements can be obtained from the appropriate Program Director or the Vice President of Instruction and Student Affairs. Students should consult with their advisor for specific requirements for each of the degrees. A minimum of 15 credit hours that apply toward the particular degree/certificate must be earned from Colorado Northwestern for graduation.

Students planning to graduate must file a Graduation Application with the Admissions and Records Office. The applications must be filed during the registration period of the semester in which the student intends to graduate.



## Graduation Honors

Graduation Honors recognizes outstanding academic achievement throughout a student's academic career at the home institution. The honors are awarded to students who complete the requirements for an associate degree and earn a 3.5 or better cumulative grade point average at the institution. Only college level courses completed at the institution will be included in the GPA calculation. Individual colleges may choose to designate a minimum number of credits to be earned in residence at the college to be eligible for graduation honors. The three levels of recognition are defined as follows and will be posted on the student's transcript –

	Cum Laude (“with honor”)	3.50 to 3.749	Cumulative GPA
Magna	Cum Laude (“with great honor”)	3.75 to 3.99	Cumulative GPA
Summa	Cum Laude (“with highest honor”)	4.0	Cumulative GPA

## ACADEMIC TRANSFER PROGRAMS

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Colorado Northwestern offers the Associate of Arts (AA) and the Associate of Science (AS) degrees for the student who wishes to transfer to a baccalaureate-level college or university. Each of the programs fulfills the General Education Core Transfer Program.

Career and transfer opportunities vary according to one's intended major of concentration. Students are encouraged to explore a range of subjects through elective course work in fine arts, behavioral sciences, natural sciences and mathematics, literature, business, and humanities. Students are assisted, through the academic advising program, to realistically assess their goals and aspirations.

### GT Pathways

#### gtPathways Curriculum

gtPathways is a set of general education courses that the state guarantees to transfer to a public institution in the state of Colorado. The curriculum consists of **31 credit hours** of courses across **5 content areas** - Communications, Mathematics, Natural and Life Science, Social and Behavioral Sciences, and Arts and Humanities. The number of credits required in these areas differs with the various degree designations. Details are available on the specific program pages. Receiving institutions shall apply guaranteed general education courses to a student's general education or major requirements. Approved courses in gtPathways are not based on course equivalencies but meet content and competency criteria. Receiving institutions shall apply guaranteed general education courses to a student's general education or major requirements.

The gtPathways Program makes it possible for Colorado Northwestern Community College students to complete a core of general education curriculum requirements and be guaranteed transfer credit for these classes at Colorado's public four-year colleges and universities. Each Core course must be completed with a grade of "C" or better. Only courses taken after the Colorado Department of Higher Education approval date have transfer guarantees.

Keep in mind that it is always a good idea to check with the school you wish to attend, so you are clear about which credits will transfer beyond any that are guaranteed by the gtPathways transfer program or a statewide articulation agreement.

State approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.

## Statewide Transfer Articulation Agreements (Degrees with Designation)

The Colorado Community College System has entered into a series of agreements between Colorado's community/junior colleges and Colorado's public four-year colleges and universities of Colorado (**Adams State College, Colorado Mesa University (Mesa State) Colorado State University-Ft Collins, Colorado State University-Pueblo, Fort Lewis College, Metropolitan State College of Denver, University of Colorado at Boulder, University of Colorado at Colorado Springs, University of Colorado Denver, University of Northern Colorado, and Western State College**) on a guaranteed transfer curriculum. These agreements assure transferability of general education courses among Colorado's public colleges and universities, ensuring access to higher education to students who wish to meet the lower division general education requirements of most baccalaureate degrees at a local community college before continuing at a four-year college or university.

Statewide articulation agreements prescribe specific general education requirements for the following professional degree programs: Business, Early Childhood, Elementary Education, Engineering, and Nursing. Program worksheet are available in this catalog for all transfer agreements with the exception of Engineering. For information on Engineering transfer programs, please visit: <http://highered.colorado.gov/Academics/Transfers/Agreements/engineering.pdf>

Students should check with a transfer coordinator and/or advisor with the school they wish to attend, so that they are clear about which credits will transfer beyond any that are guaranteed by the guaranteed transfer program or a statewide articulation agreement.

Some Degrees with Designation will require online course work or reverse transfer to complete the degree. These degrees are noted.

### Part One-Guarantees

Students who complete an AA/AS degree **and** the prescribed curriculum in the articulation agreement **and** are admitted (with no academic deficiencies that require additional coursework) to a receiving institution participating in this agreement are guaranteed the following:

- Junior standing with no more than 60 remaining credits to meet the graduation requirements for a baccalaureate degree in the degree program covered by this articulation agreement.
- Completion of the receiving institution's lower division general education requirements as defined by the gtPathways curriculum.
- The same graduation requirements as students who begin and complete this degree program at the receiving institution.

### Part Two-Limitations

Completion of the curriculum prescribed within this statewide articulation agreement does not guarantee admission to a participating receiving institution. Students must meet all admission and application requirements at the receiving institution including the submission of all required documentation by stated deadlines. Please note: students transferring to a University of Colorado institution (Boulder, Colorado Springs, Denver) must satisfy the CU System's MAPS (Minimum Academic Preparation Standards) requirement.

Only courses with grades of C- or higher are guaranteed to transfer.

Admission to a receiving institution does not guarantee enrollment in a specific degree program. Some programs at receiving institutions have controlled entry due either to space limitations or academic requirements.

The credit and course transfer guarantees described in this agreement apply to the specific degree program covered by this agreement. Receiving institutions will evaluate application of the courses designated in this agreement to other degree programs on a course-by-course basis.

Students who wish to use credits awarded by exam, such as AP (Advanced Placement), or IB (International Baccalaureate), to fulfill specific course requirements are responsible for consulting with the institution to which they are considering transferring to determine whether the credits they have been awarded by exam meet the standards of the receiving institution for specific course equivalents.

The receiving institution will accept all applicable credits earned within ten years of transfer to the receiving institution. Credits earned more than ten years earlier will be evaluated on a course-by-course basis.

All the courses a student needs to take in the discipline covered by this Articulation Agreement are listed in the Prescribed Curriculum. **Any additional courses taken in the discipline covered by this Agreement may not count toward the requirements of the major at the receiving institution.** Students can avoid this problem by either taking no more courses in the discipline than the ones identified in the Prescribed Curriculum or by consulting first with the receiving institution to assure that any additional courses they take in the discipline will count toward the major. Because of the limitations above, students must consult with the Office of Admissions at the institution to which they are considering transferring.

The Transfer Policy of the Colorado Department of Higher Education is available at:  
<http://highered.colorado.gov/Academics/Transfers/Students.html>

**Any additional limitations will be noted at the end of each Degree With Designation Transfer Agreements / Colorado Public Four-Year Institutions**

On behalf of our many students who wish to pursue advanced degrees, the Colorado Community College System is pleased to provide these and other transfer agreements with four-year institutions.

#### **Transfer Agreements/ Four Year Public Colorado Institutions**

<b>Colorado State University-Ft. Collins</b>	<a href="http://www.colostate.edu">www.colostate.edu</a>
<b>Fort Lewis College</b>	<a href="http://www.fortlewis.edu">www.fortlewis.edu</a>
<b>Metropolitan State College of Denver</b>	<a href="http://www.mscd.edu">www.mscd.edu</a>
<b>University of Colorado Boulder</b>	<a href="http://www.colorado.edu">www.colorado.edu</a>
<b>University of Colorado Colorado Springs</b>	<a href="http://www.uccs.edu">www.uccs.edu</a>
<b>University of Colorado Denver</b>	<a href="http://www.ucdenver.edu">www.ucdenver.edu</a>
<b>University of Northern Colorado</b>	<a href="http://www.unco.edu">www.unco.edu</a>
<b>Western State College of Colorado</b>	<a href="http://www.western.edu">www.western.edu</a>

This is not a comprehensive list of the State Guaranteed General Education Transfer Courses, rather a representation of classes that are either typically offered at CNCC or through online delivery. For a more comprehensive list, please visit:

<http://highered.colorado.gov/Academics/Transfers/gtPathways/Curriculum.html>

In the individual program worksheet, gtPathways courses are indicated in **BOLD** print. State-approved elective courses are in plain lettering.

### **State Guaranteed General Education Transfer**

#### **Courses**

#### **Communication (CO1, CO2, CO3)**

ENG 121	English Composition I (3)
ENG 122	English Composition II (3)
ENG 201	Writing for Public Discourse
HIS 265	Writing About History

#### **Mathematics (MA1)**

MAT 120	Mathematics for Liberal Arts (4)
MAT 121	College Algebra (4)
MAT 122	Trigonometry (3)
MAT 123	Finite Mathematics (4)
MAT 125	Survey of Calculus (4)
MAT 135	Introduction to Statistics (3)
MAT 166	Pre-Calculus (5)
MAT 201,202,203	Calculus I,II,III (5,5,4)

#### **Arts & Humanities History**

##### **Art and Expression (AH1)**

ART 110	Art Appreciation (3)
ART 111,112	Art History I, II (3,3)
ART 207	Art History 1900 to Present (3)
DAN 125	History of Dance I (3)
MUS 120	Music Appreciation (3)
MUS 121.122	Introduction to Music History I, II (3,3)
THE 105	Introduction to Theatre Arts (3)
THE 211,212	Development of Theatre I, II (3,3)

##### **Literature and Humanities (AH2)**

HUM 115	World Mythology (3)
HUM 121	Humanities: Early Civilizations (3)
HUM 122	Humanities: Medieval to Modern (3)
HUM 123	Humanities: The Modern World (3)
LIT 115	Introduction to Literature (3)
LIT 201,202	Masterpieces of Literature I, II (3,3)
LIT 205	Ethnic Literature (3)
LIT 211,212	Survey of American Literature I, II (3,3)
LIT 221,222	Survey of British Literature I, II (3,3)
LIT 225	Introduction to Shakespeare (3)

##### **Ways of Thinking (AH3)**

PHI 111	Introduction to Philosophy (3)
PHI 112	Ethics (3)
PHI 113	Logic (3)
PHI 114	Comparative Religions (3)
PHI 214	Philosophy of Religion (3)

PHI 218	Environmental Ethics (3)
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#### **Foreign Languages (AH4)**

FRE 211,212	French Language III, IV (3,3)
GER 211,212	German Language III,IV (3,3)
ITA 211,212	Italian Language III,IV (3,3)
JPN 211,212	Japanese Language III,IV
RUS 211,212	Russian Language III,IV (3,3)
SPA 211212	Spanish Language III,IV (3,3)

#### **History (HI1)**

HIS 101,102	Western Civilization I,II (3,3)
HIS 111,112	World Civilization I, II (3,3)
HIS 201,202	U.S. History I, II (3,3)
HIS 208	American Indian History (3)
HIS 225	Colorado History (3)
HIS 236	U.S. History Since 1945 (3)
HIS 247	20 <sup>th</sup> Century World History (3)

#### **Social and Behavioral Sciences**

##### **Social & Behavioral Sciences**

##### **Economic or Political Systems (SS1)**

ECO 101	Economics of Social Issues (3)
ECO 201,202	Principles of Macroeconomics (3,3)
POS 105	Introduction to Political Science (3)
POS 111	American Government (3)
POS 205	International Relations (3)
POS 225	Comparative Government (3)

##### **Geography (SS2)**

GEO 105	Geography (3)
GEO 106	Human Geography (3)

##### **Human Behavior, Culture, or Social Frameworks (SS3)**

ANT 101	Cultural Anthropology (3)
ANT 107	Introduction to Archaeology (3)
ANT 111	Physical Anthropology (3)
ANT 215	Indians of No. America(3)
JOU 105	Introduction to Mass Media (3)
PSY 101,102	General Psychology I, II (3,3)
PSY 205	Psychology of Gender (3)
PSY 217	Human Sexuality (3)
PSY 226	Social Psychology (3)
PSY 227	Psychology of Death and Dying (3)
PSY 235	Human Growth & Development (3)
PSY 238	Child Development (3)
PSY 249	Abnormal Psychology (3)
SOC 101,102	Sociology I, II (3,3)
SOC 205	Sociology of Family Dynamics (3)
SOC 215	Contemporary Social Problems (3)

SOC 216	Sociology of Gender (3)
SOC 231	Sociology of Deviant Behavior (3)
SOC 237	Sociology of Death and Dying (3)

#### **Natural and Physical Sciences (SC1)**

AGY 240	Introductory Soil Science (4)
AST 101,102	Astronomy I, II (3,3)
BIO 105	Science of Biology (4)
BIO 111,112	General College Biology I, II (5,5)
BIO 201,202	Anatomy & Physiology I, II (4,4)
BIO 204	Microbiology (4)
BIO 208	General College Microbiology
CHE 101,102	Introduction to Chemistry I,II (5,5)
CHE 111,112	General College Chemistry I,II (5,5)
ENV 101	Environmental Science (4)
GEO 111	Physical Geography-Landforms
GEY 111	Physical Geology w/Lab (4)
GEY 121	Historical Geology w/Lab (4)
MET 150	General Meteorology (4)
NRE 251	General Oceanography I (4)
PHY 105	Conceptual Physics w/Lab (4)
PHY 111,112	Physics: Algebra Based I,II (5,5)

#### **Approved Electives for Associate of Science Degree**

AGY, AST, BIO, CHE, CIS (118, 124), CSC, ENV, GIS, GEY, MAT (121 or higher), PED (2 credits maximum), PHY, SCI

#### **Approved Electives for Associate of Arts Degree**

AAA (101, 109) ACC (121, 122), ANT, ART, AST, BIO, BUS (115, 216, 217, 226), CHE, CIS (118, 124), CNG 160, COM, CRJ (110, 210), CSC, ECO, EDU 221, ENG (121 or above), ENV 101, FRE, GEO, GER, GEY, GIS 105, HIS, HPR (102, 137, 178, 278, 205, 206, 216, 217), HUM, HWE (100, 237), ITA JOU, JPN, LIT, MAN 226, MAR 216, MAT(120 or above), MUS, NRE 102, PED (2 credits maximum), PER, PHI, PHO, PHY, POS, PSY, RUS, SCI, SOC, SPA, and THE



## Transfer Agreements/ Four-Year Institutions

<b>American Public University System</b> <ul style="list-style-type: none"> <li>• <a href="#">Transfer Agreement</a></li> </ul>	<a href="http://www.apus.edu">www.apus.edu</a>
<b>Ashford University</b> <ul style="list-style-type: none"> <li>• <a href="#">Transfer Agreement</a></li> </ul>	<a href="http://www.ashford.edu">www.ashford.edu</a>
<b>Capella University</b> <ul style="list-style-type: none"> <li>• <a href="#">Letter of Agreement</a></li> </ul>	<a href="http://www.capella.edu">www.capella.edu</a>
<b>Colorado Christian University</b> <ul style="list-style-type: none"> <li>• <a href="#">Transfer Agreement</a></li> </ul>	<a href="http://www.ccu.edu">www.ccu.edu</a>
<b>Colorado Department of Corrections</b> <ul style="list-style-type: none"> <li>• <a href="#">Transfer Agreement</a></li> </ul>	<a href="http://www.doc.state.co.us">www.doc.state.co.us</a>
<b>Colorado Technical University</b> <ul style="list-style-type: none"> <li>• <a href="#">Transfer Agreement</a></li> <li>• <a href="#">Addendum</a></li> <li>• <a href="#">Articulation Agreement Appendix</a></li> </ul>	<a href="http://www.coloradotech.edu">www.coloradotech.edu</a>
<b>DeVry University</b> Business Administration, Electronics & Engineering Technology, Computer Engineering Technology, Computer Information Systems. <ul style="list-style-type: none"> <li>• <a href="#">Transfer Agreement</a></li> </ul>	<a href="http://www.den.devry.edu">www.den.devry.edu</a>
<b>Drexel University</b> RN to BSN <ul style="list-style-type: none"> <li>• <a href="#">Educational Cooperation Agreement</a></li> </ul>	<a href="http://www.drexel.com">www.drexel.com</a>
<b>Franklin University</b> Administration, Computer Science, Technical Administration, Health Service Administration, Management Information Systems. <ul style="list-style-type: none"> <li>• <a href="#">Educational Alliance</a></li> </ul>	<a href="http://www.franklin.edu">www.franklin.edu</a>
<b>Johnson &amp; Wales University</b> Business Administration, Marketing, Management, Financial Services Management <ul style="list-style-type: none"> <li>• <a href="#">Transfer Agreement</a></li> </ul>	<a href="http://www.jwu.edu">www.jwu.edu</a>
<b>Jones International University</b> <ul style="list-style-type: none"> <li>• <a href="#">Transfer Agreement</a></li> </ul>	<a href="http://www.jonesinternational.edu">www.jonesinternational.edu</a>
<b>Kaplan University</b> Phone: 1-866-397-9456 <ul style="list-style-type: none"> <li>• <a href="#">Transfer Agreement</a></li> </ul>	<a href="http://www.cc.kaplan.edu">www.cc.kaplan.edu</a>
<b>Metropolitan State College</b> Individualized Degree Program. <ul style="list-style-type: none"> <li>• <a href="#">IDP Agreement</a></li> </ul>	<a href="http://www.mscd.edu">www.mscd.edu</a>
<b>Northcentral University</b> AA/AS to Baccalaureate <ul style="list-style-type: none"> <li>• <a href="#">Transfer Agreement</a></li> </ul>	<a href="http://coloradocc.ncu.edu">coloradocc.ncu.edu</a>
<b>NW Missouri State University</b> BS Business Management <ul style="list-style-type: none"> <li>• <a href="#">Transfer Agreement</a></li> </ul>	<a href="http://www.nwmissouri.edu">www.nwmissouri.edu</a>
<b>Regis University</b> Associate's to Bachelor's® Program <ul style="list-style-type: none"> <li>• <a href="#">Transfer Agreement</a></li> </ul>	<a href="http://www.transfertoregis.org">www.transfertoregis.org</a>
<b>University of Denver Women's College</b>	<a href="http://www.womenscollege.du.edu">www.womenscollege.du.edu</a>

- [Transfer Agreement](#)

**University of Phoenix**

- [Transfer Agreement](#)
- [Transfer Guide, BS in Elementary Education](#)

**University of Montana**

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[www.umt.edu/](http://www.umt.edu/)

- [Transfer Agreement](#)

# PROGRAMS OF STUDY

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## CNCC Philosophy of General Education

General education at Colorado Northwestern Community College seeks to assist students in obtaining the knowledge, skills, and attitudes that enhance quality of life and the ability to function effectively in an ever-changing society. To meet this goal, all CNCC students, vocational and liberal arts, full-time and part-time, are provided with a variety of educational experiences, both within and outside the classroom.

CNCC emphasizes two general education outcomes for every student:

- 1) To equip students with skills necessary for creative problem solving, critical thinking, and analysis of values; and
- 2) To equip students with the communication skills necessary for effective listening, speaking, reading, and writing.

## General Studies Program

The Associate Degree in General Studies is awarded to students who wish to arrange their own program. Guidelines require that a student pursuing an AGS must develop, in consultation with an academic advisor, a written statement of objectives and a plan of studies designed to meet those objectives. This degree can be designed to obtain professional job skills or to transfer to four-year colleges or universities. It includes a basic core of General Education in specific disciplines. In addition, a student can choose elective credits in any academic discipline, area of personal interest, or occupational field.

Various transfer courses from this degree may be accepted in a four-year baccalaureate program; however, each course will be considered on an individual basis. It is **strongly suggested** that students work closely with their academic advisors in developing an AGS degree track for transfer purposes.

## CNCC Philosophy of Career & Technical Education

Career & Technical Education at CNCC seeks to assist students in gaining knowledge, skills, and attitudes that promote occupational competence and the ability to function effectively in the workplace. To meet this goal, students are provided with a variety of educational experiences inside and outside of the classroom.

For the student who wishes to gain employment skills, Colorado Northwestern offers Associate of Applied Science Degrees and Certificates of Completion. Designed primarily for the student who wishes to go to work immediately, these programs may allow transferability of partial credit to a four-year college or university.

Occupational programs are developed in accordance with the needs of business, industry, and professions. Program Advisory Committees, consisting of leaders in enterprises related to these curricula, advise college staff on the availability of jobs, desired job skills, appropriate course content, and the facilities and equipment needed for effective job training. As additional needs of the workplace are identified, new programs will be developed and current programs will be revised to meet these emerging needs.

## Gainful Employment

The US Department of Education requires colleges to disclose a variety of information for any financial aid eligible program that “prepares students for gainful employment in a recognized occupation”. The information provided at <http://www.cncc.edu/cms/content/academics-gainful-employment-disclosure-information> is the best available to us but represents one year’s data only, however, we hope that this information is helpful to our current students and to prospective students as they make their career and educational choices.

If you have any questions regarding the data provided and what it means to you as a student, please feel free to contact CNCC Student Services. 1-800-562-1105 or [infocentral@cncc.edu](mailto:infocentral@cncc.edu)



## Accounting

### Associate of Applied Science Accounting

Credits	<u>General Education Requirements- 15 Credits</u>	Course Number
<u>3</u>	<u>Written Communication – 3 Credits</u> <b>English Composition I</b>	<b>ENG 121</b>
<u>3</u>	<u>Mathematics – 3 Credits</u> <b>College Algebra (121) or Above</b>	<b>MAT 121</b>
<u>9</u>	<u>Social &amp; Behavioral Science – 9 Credits</u> <b>Principles of Macroeconomics</b> <b>Principles of Microeconomics</b> Choose one additional course from Social & Behavioral Science, Humanities, Language, or Natural & Life Sciences	<b>ECO 201</b> <b>ECO 202</b>
	<u>Specialized Course Requirements- 33 Credits</u>	
4	Accounting Principles I	ACC 121
4	Accounting Principles II	ACC 122
3	Income Tax	ACC 131
4	Intermediate Accounting I	ACC 211
3	Accounting Information Systems & E-Business	ACC 215
3	Cost Counting	ACC 226
3	Introduction to Business	BUS 115
3	Legal Environment of Business	BUS 216
3	Business Communications/Report Writing	BUS 217
3	PC Spreadsheet Concepts	CIS 155
<u>12</u>	<u>Electives- Choose 12 Credits</u>	
3	Payroll Accounting	ACC 115
4	Computerized Accounting	ACC 125
3	Business Statistics	BUS 226
3	Introduction to PC Applications	CIS 118
3	Principles of Management	MAN 226
3	Principles of Marketing	MAR 216
<b>60</b>	<b>Total Required Credit Hours</b>	

## Occupational Certificate Accounting

Credits	<u>Specialized Course Requirements- 33 Credits</u>	Course Number
4	Accounting Principles I	ACC 121
4	Accounting Principles II	ACC 122
3	Payroll Accounting	ACC 115
3	Introduction to Business	BUS 115
	<u>Related Course Requirements</u>	
3	PC Spreadsheet Concepts	CIS 155
3	Introduction to PC Applications	CIS 118
<b>20</b>	<b>Total Required Credit Hours</b>	

## Automotive

### Occupational Certificate Automotive Technology-Basic

Credits	<u>Specialized Course Requirements- 43 Credits</u>	Course Number
2	Introduction to the Automotive Shop	ASE 102
2	Auto Maintenance I	ASE 103
3	Brakes I	ASE 110
2	Basic Auto Electricity	ASE 120
2	Battery, Starting, & Charging	ASE 123
2	General Engine Diagnosis	ASE 130
2	Ignition System Diagnosis & Repair	ASE 132
2	Automotive Emissions	ASE 134
3	Suspension & Steering	ASE 140
2	U-Joint & Axle Shaft Service	ASE 150
2	Manual Transmissions/Transaxle & Clutches	ASE 151
2	Differentials & 4WD/AWD Repair	ASE 152
1	Engine Removal & Installation	ASE 160
3	Brakes II	ASE 210
4	Automotive Body Electrical	ASE 221
2	Automotive Computers	ASE 231
4	Fuel Injection & Exhaust	ASE 233
1	Drivability Diagnosis	ASE 235
1	Automatic Transmission/Transaxle Service	ASE 250
1	Workplace Communications	COM 100
<b>43</b>	<b>Total Required Credit Hours</b>	

### Occupational Certificate Automotive Technology-Advanced

Credits	<u>Specialized Course Requirements- 13 Credits</u>	Course Number
	Completion of Automotive Technology- Basic Certificate	
5	Engine Repair & Rebuild	ASE 161
3	Suspension & Steering II	ASE 240
5	Automatic Transmission/Transaxle Repair	ASE 251
<b>13</b>	<b>Total Required Credit Hours</b>	

### Occupational Certificate Diesel Technology

Credits	<u>Specialized Course Requirements- 43 Credits</u>	Course Number
4	Diesel Engines I	DPM 103
3	Heavy Duty Powertrains I	DPM 105
3	Diesel Fuel Systems	DPM 106
3	Preventative Maintenance I	DPM 111
3	Hydraulic Systems I	DPM 121
3	Hydraulic Systems II	DPM 122
3	Heavy Duty Steering & Suspension	DPM 140
4	Diesel Engines II	DPM 203
3	Heavy Duty Powertrains II	DPM 205
3	Heavy Duty Brakes I	DPM 206
3	Heavy Duty Brakes II	DPM 207
1	Diesel Air Induction	DPM 210
4	Heavy Duty Lighting & Instrumentation	DPM 222
3	Heavy Duty Steering & Suspension II	DPM 240
<b>43</b>	<b>Total Required Credit Hours</b>	

## Aviation

### Associate of Applied Science Aviation Maintenance Technology

Credits	<u>General Education Requirements- 15 Credits</u>	Course Number
<u>3</u>	Small Business Management	MAN 216
<u>3</u>	<u>Written Communication – 3 Credits (Choose 1 Course)</u> <b>English Composition I</b> or Technical Writing	<b>ENG 121, 131</b>
<u>3</u>	<u>Oral Communication – 3 Credits</u> Public Speaking	COM 115
<u>6</u>	<u>Social &amp; Behavioral Sciences – 6 Credits (Choose 2 Courses)</u> <b>Principles of Macroeconomics</b> <b>American Government</b> <b>General Psychology</b> <b>Introduction to Sociology</b> Human Relations	____ _ ____ _
	<u>Specialized Course Requirements- 89 Credits</u>	
4	A&P Preparation	AMT 101
4	Basic Electrics	AMT 102
2	Weight & Balance/Ground Handling	AMT 103
3	Regulations & Publications	AMT 104
6	Materials & Processes	AMT 105
2	Corrosion Control & Fluid Lines	AMT 106
2	Wood, Fabric & Finishes	AMT 111
6	Sheet Metal	AMT 112
1	Aircraft Welding	AMT 113
3	Assembly, Rigging & Inspection	AMT 114
2	Composite Construction	AMT 115
3	Hydraulic Systems	AMT 121
4	Aircraft Electrics	AMT 122
2	Instruments & Warning Systems	AMT 123
2	Fuel Systems	AMT 124
3	Miscellaneous Systems	AMT 125
3	Aviation Electronics	AMT 126
3	Landing Gear Systems	AMT 127
4	Reciprocating Engine Theory	AMT 201
3	Reciprocating Fuel Metering & Induction Systems	AMT 202
2	Reciprocating Ignition Systems	AMT 203
4	Reciprocating Engine Maintenance	AMT 205
2	Reciprocating Propeller Systems	AMT 206
2	Engine Electrics & Instrument Systems	AMT 207
4	Turbine Engine Theory	AMT 211
2	Turbine Fuel Systems	AMT 212
3	Miscellaneous Turbine Systems	AMT 213
4	Turbine Engine Maintenance	AMT 215
1	Turbine Propeller Systems	AMT 216
3	Trouble Shooting	AMT 218
<b>104</b>	<b>Total Required Credit Hours</b>	

## Occupational Certificate Aviation Maintenance Technology

Credits	<u>Specialized Course Requirements- 89 Credits</u>	Course Number
4	A&P Preparation	AMT 101
4	Basic Electrics	AMT 102
2	Weight & Balance/Ground Handling	AMT 103
3	Regulations & Publications	AMT 104
6	Materials & Processes	AMT 105
2	Corrosion Control & Fluid Lines	AMT 106
2	Wood, Fabric & Finishes	AMT 111
6	Sheet Metal	AMT 112
1	Aircraft Welding	AMT 113
3	Assembly, Rigging & Inspection	AMT 114
2	Composite Construction	AMT 115
3	Hydraulic Systems	AMT 121
4	Aircraft Electrics	AMT 122
2	Instruments & Warning Systems	AMT 123
2	Fuel Systems	AMT 124
3	Miscellaneous Systems	AMT 125
3	Aviation Electronics	AMT 126
3	Landing Gear Systems	AMT 127
4	Reciprocating Engine Theory	AMT 201
3	Reciprocating Fuel Metering & Induction Systems	AMT 202
2	Reciprocating Ignition Systems	AMT 203
4	Reciprocating Engine Maintenance	AMT 205
2	Reciprocating Propeller Systems	AMT 206
2	Engine Electrics & Instrument Systems	AMT 207
4	Turbine Engine Theory	AMT 211
2	Turbine Fuel Systems	AMT 212
3	Miscellaneous Turbine Systems	AMT 213
4	Turbine Engine Maintenance	AMT 215
1	Turbine Propeller Systems	AMT 216
3	Trouble Shooting	AMT 218
<b>89</b>	<b>Total Required Credits</b>	

**Associate of Applied Science  
Aviation Technology-Airplane**

Credits	<u>General Education Requirements- 18 Credits</u>	Course Number
<b>6</b>	<u>Written Communication – 6 Credits</u> <b>English Composition I</b> <b>English Composition II</b> or Technical Writing	<b>ENG 121</b> <b>ENG 122,131</b>
<b>3</b>	<u>Oral Communication – 3 Credits</u> Public Speaking	COM 115
<b>3</b>	<u>Mathematics – 3 Credits</u> Career Math (107) or higher	MAT_____
<b>6</b>	<u>Social &amp; Behavioral Sciences – 6 Credits (Choose 2 Courses)</u> <b>Principles of Macroeconomics or Microeconomics</b> <b>General Psychology I, II</b> Human Relations <b>Introduction to Sociology I, II</b>	<b>ECO 201,202</b> <b>PSY 101,102</b> PSY 106 <b>SOC 101,102</b>
	<u>Specialized Course Requirements- 46 Credits</u>	
4	Private Pilot Ground School	AVT 101
4	Private Pilot Flight	AVT 102
4	Aviation Meteorology	AVT 105
4	Instrument Pilot Ground School	AVT 111
4	Instrument Pilot Flight	AVT 112
2	Commercial Pilot Ground School	AVT 201
3	Commercial Pilot Flight I	AVT 202
4	Commercial Pilot Flight II	AVT 203
1	Crew Resource Management	AVT 206
1	Multi Engine Ground School	AVT 207
2	Fundamentals of Instruction	AVT 211
2	Flight Instructor Ground School	AVT 212
2	Instrument Instructor Ground School	AVT 221
1	Flight Instructor Flight or Mountain Flying Ground School or Simulator Lab I or Simulator Lab II	AVT 213 AVT 205 AVT 145 AVT 146
1	Multi Engine Flight	AVT 208
3	Aircraft Systems for Pilots-Airframe	AVT 140
3	Aircraft Systems for Pilots-Powerplant	AVT 141
	<u>Related Course Requirements-3 Credits (Choose 1)</u>	
3	Human Resource Management I	MAN 200
3	Principles of Management	MAN 226
3	Operations Management	MAN 227
3	Introduction to Business	BUS 115
3	Business Communication/Report Writing	BUS 217
3	Airport Management	AVT 240
<b>2</b>	<u>Electives- Choose 2 Credits</u> AVT 208, 222, 223, 236, 237	
<b>69</b>	<b>Total Required Credits</b>	

### Occupational Certificate Aviation Technology

Credits	<u>Specialized Course Requirements- 39 Credits</u>	Course Number
4	Private Pilot Ground School	AVT 101
4	Private Pilot Flight	AVT 102
4	Aviation Meteorology	AVT 105
4	Instrument Pilot Ground School	AVT 111
4	Instrument Pilot Flight	AVT 112
2	Commercial Pilot Ground School	AVT 201
3	Commercial Pilot Flight I	AVT 202
4	Commercial Pilot Flight II	AVT 203
1	Crew Resource Management	AVT 206
1	Multi Engine Ground School	AVT 207
2	Fundamentals of Instruction	AVT 211
2	Flight Instructor Ground School	AVT 212
2	Instrument Instructor Ground School	AVT 221
1	Flight Instructor Flight OR	AVT 213
	Mountain Flying Ground School	AVT 205
1	Multi Engine Flight	AVT 208
<b>39</b>	<b>Total Required Credits</b>	

### Occupational Certificate Aviation Technology-Private Pilot

Credits	<u>Specialized Course Requirements- 12 Credits</u>	Course Number
4	Private Pilot Ground School	AVT 101
4	Private Pilot Flight	AVT 102
4	Aviation Meteorology	AVT 105
<b>12</b>	<b>Total Required Credits</b>	

### Occupational Certificate Aviation Technology – Instrument Rating

Prerequisite: 50 hours of cross-county flight time as pilot in command, of which at least 10 hours must be in airplanes or be enrolled in a Part 141 Instrument/Commercial course.

Credits	<u>Specialized Course Requirements- 8 Credits</u>	Course Number
4	Instrument Pilot Ground School	AVT 111
4	Instrument Pilot Flight	AVT 112
<b>8</b>	<b>Total Required Credits</b>	

**Occupational Certificate  
Aviation Technology – Commercial Pilot**

Prerequisite: Private Pilot's license with Instrument Rating

Credits	<u>Specialized Course Requirements- 9 Credits</u>	Course Number
2	Commercial Pilot Ground School	AVT 201
3	Commercial Flight I	AVT 202
4	Commercial Flight II	AVT 203
<b>9</b>	<b>Total Required Credits</b>	

**Occupational Certificate  
Aviation Technology – Flight Instructor**

Prerequisite: Commercial Certificate with Instrument Rating

Credits	<u>Specialized Course Requirements- 5 Credits</u>	Course Number
2	Fundamentals of Instruction	AVT 211
2	Flight Instructor Ground School	AVT 212
1	Flight Instructor Flight	AVT 213
<b>5</b>	<b>Total Required Credits</b>	

## Banking and Financial Services

### Associate of Applied Science Banking and Financial Services

Credits	<u>General Education Requirements- 18 Credits</u>	Course Number
<u>3</u>	<u>Written Communication – 3 Credits</u> <b>English Composition I</b>	<b>ENG 121</b>
<u>3</u>	<u>Oral Communication – 3 Credits</u> Public Speaking or Interpersonal Communication	COM 115,125
<u>3</u>	<u>Mathematics – 3 Credits</u> <b>Math 120</b> or Higher	<b>MAT</b> _____
<u>3</u>	<u>Arts &amp; Humanities – 3 Credits (Choose 1 from the following)</u> <b>AH1: ART 110,111,112,207; MUS 120,121,122; THE 105,211,212;</b> <b>AH2: HUM 121,122,123; LIT 115,201,202,205,211,212,221,222,225;</b> <b>AH3: PHI 111,112,113,114,214, 218;</b> <b>AH4: FRE/GER/ITA/JPN/RUS/SPA 211,212</b>	<b>AH</b> _____ <b>AH</b> _____
<u>6</u>	<u>Social &amp; Behavioral Sciences – 6 Credits (Choose 2 Courses)</u> <b>Principles of Macroeconomics</b> <b>Principles of Microeconomics</b>	<b>ECO 201</b> <b>ECO 202</b>
	<u>Specialized Course Requirements- 45 Credits</u>	
8	Accounting Principles I and II	ACC 121 & 122
3	Introduction to Business	BUS 115
3	Legal Environment of Business	BUS 216
3	Business Communication/Report Writing	BUS 217
3	Business Statistics	BUS 226
3	Introduction to PC Application	CIS 118
3	Introduction to Finance	FIN 101
3	Principles of Banking	FIN 105
3	Money & Banking	FIN 226
2	Law & Banking Applications	FIN 245
3	Internship	FIN 285
1	Business Ethics & Values	MAN 102
3	Negotiations & Conflict Resolution	MAN 212
1	Time Management	MAN 117
3	Small Business Management	MAN 216
<b>63</b>	<b>Total Required Credits</b>	

**Occupational Certificate  
Banking and Financial Services**

Credits	<u>Specialized Course Requirements- 15 Credits</u>	Course Number
4	Accounting Principles I	ACC 121
3	Introduction to Finance	FIN 101
3	Principles of Banking	FIN 105
3	Money & Banking	FIN 226
2	Law & Banking Applications	FIN 245
<b>15</b>	<b>Total Required Credits</b>	

## Business

### Associate of Applied Science Small Business Management

Credits	<u>General Education Requirements- 18 Credits</u>	Course Number
<u>3</u>	<u>Written Communication – 3 Credits</u> <b>English Composition I</b>	<b>ENG 121</b>
<u>3</u>	<u>Oral Communication – 3 Credits</u> Public Speaking OR Interpersonal Communication	COM 115,125
<u>3</u>	<u>Mathematics – 3 Credits</u> <b>Math for Liberal Arts (120) or higher</b>	<b>MAT_____</b>
<u>3</u>	<u>Arts &amp; Humanities – 3 Credits (Choose 1 from the following)</u> <b>AH1: ART 110,111,112,207; MUS 120,121,122; THE 105,211,212;</b> <b>AH2: HUM 121,122,123; LIT 115,201,202,205,211,212,221,222,225;</b> <b>AH3: PHI 111,112,113,114,214, 218;</b> <b>AH4: FRE/GER/ITA/JPN/RUS/SPA 211,212</b>	<b>AH_____</b> <b>AH_____</b>
<u>6</u>	<u>Social &amp; Behavioral Sciences – 6 Credits</u> <b>Principles of Macroeconomics</b> <b>Principles of Microeconomics</b>	<b>ECO 201</b> <b>ECO 202</b>
	<u>Specialized Course Requirements- 43 Credits</u>	
4,4	Accounting Principles I & II	ACC 121,122
3	Introduction to Business	BUS 115
3	Legal Environment of Business	BUS 216
3	Business Communication/Report Writing	BUS 217
3	Introduction to PC Application	CIS 118
1	Business Ethics & Values	MAN 102
3	Negotiations & Conflict Resolution	MAN 212
1	Time Management	MAN 117
3	Human Resource Management	MAN 200
3	Principles of Management	MAN 226
3	Principles of Sales	MAR 111
3	Customer Service	MAR 160
3	Principles of Marketing	MAR 216
1	Starting a Small Business	SBM 101
1	Marketing for a Small Business	SBM 108
1	Financing a Small Business	SBM 112
<b>61</b>	<b>Total Required Credits</b>	

## Cosmetology

### Associate of Applied Science Cosmetology Occupations

Credits	<u>General Education Requirements- 16 Credits</u>	Course Number
<u>3</u>	<u>Communication – 3 Credits</u> <b>English Composition I, II, or</b> Public Speaking or Interpersonal Communication	<b>ENG 121,122</b> <b>COM 115,125</b>
<u>3</u>	<u>Mathematics – 3 Credits</u> Career Math (107) or higher	MAT_____
<u>3</u>	<u>Applied Studies Elective – 3 Credits (Choose 1 Course)</u> Introduction to Business Principles of Management Conversational Spanish I Spanish Language I	BUS 115 MAN 226 SPA 101 SPA 111
<u>3</u>	<u>Social &amp; Behavioral Sciences – 3 Credits (Choose 1 Course)</u> <b>Cultural Anthropology</b> <b>World Regional Geography</b> <b>Principles of Macroeconomics, Microeconomics</b> <b>General Psychology I, II</b> <b>Human Growth &amp; Development</b> <b>Introduction to Sociology I, II</b>	<b>ANT 101</b> <b>GEO 105</b> <b>ECO 201,202</b> <b>PSY 101,102</b> <b>PSY 235</b> <b>SOC 101,102</b>
<u>4</u>	<u>Natural &amp; Physical Science – 4 Credits (Choose 1 Course)</u> <b>Astronomy I</b> <b>Science of Biology</b> <b>General College Biology</b> <b>Anatomy &amp; Physiology I</b> <b>Introduction to Chemistry I</b> <b>General College Chemistry I</b> <b>Physical Geology w/Lab</b>	<b>AST 101</b> <b>BIO 105</b> <b>BIO 111</b> <b>BIO 201</b> <b>CHE 101</b> <b>CHE 111</b> <b>GEY 111</b>

\*Continued on next page.

Specialized Course Requirements- 60 Credits

1	Shampoos, Rinses, Conditioners I	COS 103
2	Introduction to Hair Coloring	COS 110
2	Introduction to Hair Cutting	COS 120
2	Introduction to Hair Styling	COS 130
1	Introduction to Chemical Texture	COS 140
2	Introduction to Disinfection, Sanitation, & Safety	COS 160
3	Introduction to Facials & Skin Care	EST 110
2	Intermediate Facials & Skin Care	EST 111
3	Introduction to Manicures & Pedicures	NAT 110
2	Intermediate Manicures & Pedicures	NAT 111
2	Intermediate I: Hair Coloring	COS 111
2	Intermediate I: Hair Cutting	COS 121
1	Intermediate I: Chemical Texture	COS 141
1	Laws, Rules, & Regulations	COS 150
1	Intermediate I: Disinfection, Sanitation, & Safety	COS 161
2	Advanced Manicures & Pedicures	NAT 210
5	Application of Artificial Nails	NAT 211
2	Advanced Massage & Skin Care	EST 210
1	Facial Makeup	EST 211
3	Hair Removal	EST 212
2	Intermediate II: Hair Styling	COS 131
1	Shampoos, Rinses, Conditioners II	COS 203
2	Intermediate II: Hair Coloring	COS 210
2	Advanced Hair Coloring	COS 211
2	Intermediate II: Hair Cutting	COS 220
2	Advanced Hair Cutting	COS 221
2	Intermediate II: Hair Styling	COS 230
1	Advanced Hair Styling	COS 231
1	Intermediate II: Chemical Texture	COS 240
1	Advanced Chemical Texture	COS 241
1	Management, Ethics, Interpersonal Skills, & Sales	COS 250
2	Intermediate II: Disinfection, Sanitation, & Safety	COS 260
1	Advanced Disinfection, Sanitation, & Safety	COS 261

**76 Total Required Credits**

## Occupational Certificate Cosmetology Occupations-Cosmetology

PROGRAM REQUIREMENTS FOR ALL COSMETOLOGY OCCUPATIONS CETERIFICATES		
COURSE WORK	ASSESSMENT TEST SCORE	ACT SCORE
Reading 060	62	17
English 060	70	18
Math 030	56	19

Credits		Course Number
	<u>Specialized Course Requirements- 60 Credits</u>	
1	Shampoos, Rinses, Conditioners I	COS 103
2	Introduction to Hair Coloring	COS 110
2	Introduction to Hair Cutting	COS 120
2	Introduction to Hair Styling	COS 130
1	Introduction to Chemical Texture	COS 140
2	Introduction to Disinfection, Sanitation, & Safety	COS 160
3	Introduction to Facials & Skin Care	EST 110
2	Intermediate Facials & Skin Care	EST 111
3	Introduction to Manicures & Pedicures	NAT 110
2	Intermediate Manicures & Pedicures	NAT 111
2	Intermediate I: Hair Coloring	COS 111
2	Intermediate I: Hair Cutting	COS 121
1	Intermediate I: Chemical Texture	COS 141
1	Laws, Rules, & Regulations	COS 150
1	Intermediate I: Disinfection, Sanitation, & Safety	COS 161
2	Advanced Manicures & Pedicures	NAT 210
5	Application of Artificial Nails	NAT 211
2	Advanced Massage & Skin Care	EST 210
1	Facial Makeup	EST 211
3	Hair Removal	EST 212
2	Intermediate II: Hair Styling	COS 131
1	Shampoos, Rinses, Conditioners II	COS 203
2	Intermediate II: Hair Coloring	COS 210
2	Advanced Hair Coloring	COS 211
2	Intermediate II: Hair Cutting	COS 220
2	Advanced Hair Cutting	COS 221
2	Intermediate II: Hair Styling	COS 230
1	Advanced Hair Styling	COS 231
1	Intermediate II: Chemical Texture	COS 240
1	Advanced Chemical Texture	COS 241
1	Management, Ethics, Interpersonal Skills, & Sales	COS 250
2	Intermediate II: Disinfection, Sanitation, & Safety	COS 260
1	Advanced Disinfection, Sanitation, & Safety	COS 261
<b>60</b>	<b>Total Required Credits</b>	
	<u>Electives(May be substituted for any Introduction, Intermediate, and Advanced Course)</u>	
0.5-12	Special Topics	COS 275
0.5-12	Seminar/Workshop: Cosmetology	COS 279
0.5-12	Internship	COS 280
1-12	Independent Study	COS 285
0.5-12	Cosmetology Practicum	COS 288
1-3	Capstone	COS 289
0.25-12	Professional Development/Continuing Education	COS 290

Upon successful completion of specialized courses, student may be eligible to register for the Colorado Board of Barber/Cosmetology license examination.

**Occupational Certificate  
Cosmetology Occupations-Esthetician/Cosmetician**

Credits		Course Number
	<u>Specialized Course Requirements- 20 Credits</u>	
3	Introduction to Facials & Skin Care	EST 110
2	Intermediate Facials & Skin Care	EST 111
2	Advanced Skin Care & Massage	EST 210
1	Facial Makeup	EST 211
3	Hair Removal	EST 212
1	Laws, Rules, & Regulations	COS 150
2	Introduction to Disinfection, Sanitation, & Safety	COS 160
1	Management, Ethics, Interpersonal Skills, & Sales	COS 250
2	Intermediate II: Disinfection, Sanitation, & Safety	COS 260
3	Advanced II: Disinfection, Sanitation, & Safety	COS 262
<b>20</b>	<b>Total Required Hours</b>	
	<u>Electives(May be substituted for any Introduction, Intermediate, and Advanced Course)</u>	
1-3	Esthetician Preparation for State Boards	EST 230
0.5-12	Special Topics	EST 275
1-12	Advanced Esthetician Studies	EST 278
0.5-12	Supervised Esthetician Internship	EST 280
0.5-12	Independent Study	EST 285
0.5-12	Esthetician Practicum	EST 288
0.5-12	Professional Development/Continuing Education	EST 290

Upon successful completion of specialized courses, student may be eligible to register for the Colorado Board of Barber/Cosmetology license examination.

## Occupational Certificate Cosmetology Occupations-Hairstylist

Credits		Course Number
	<u>Specialized Course Requirements- 40 Credits</u>	
1	Shampoos, Rinses, Conditioners I	COS 103
2	Introduction to Hair Coloring	COS 110
2	Intermediate I: Hair Coloring	COS 111
2	Introduction to Hair Cutting	COS 120
2	Intermediate I: Hair Cutting	COS 121
2	Introduction to Hair Styling	COS 130
2	Intermediate I: Hair Styling	COS 131
1	Introduction to Chemical Texture	COS 140
1	Intermediate I: Chemical Texture	COS 141
1	Laws, Rules, & Regulation	COS 150
2	Introduction to Disinfection, Sanitation, & Safety	COS 160
1	Intermediate I: Disinfection, Sanitation, & Safety	COS 161
1	Shampoos, Rinses, Conditioners II	COS 203
2	Intermediate II: Hair Coloring	COS 210
2	Advanced Hair Coloring	COS 211
2	Intermediate II: Hair Cutting	COS 220
2	Advanced Hair Cutting	COS 221
2	Intermediate II: Hair Styling	COS 230
1	Advanced Hair Styling	COS 231
1	Intermediate II: Chemical Texture	COS 240
1	Advanced Chemical Texture	COS 241
1	Management, Ethics, Interpersonal Skills, & Sales	COS 250
2	Intermediate II: Disinfection Sanitation, & Safety	COS 260
1	Advanced Disinfection, Sanitation, & Safety	COS 261
3	Advanced II: Disinfection, Sanitation, & Safety	COS 262
<b>40</b>	<b>Total Required Credits</b>	
	<u>Electives(May be substituted for any Introduction, Intermediate, and Advanced Course)</u>	
0.5-12	Special Topics	COS 275
0.5-12	Seminar/Workshop: Cosmetology	COS 279
0.5-12	Internship	COS 280
1-12	Independent Study	COS 285
0.5-12	Cosmetology Practicum	COS 288
1-3	Capstone	COS 289

Upon successful completion of specialized courses, student may be eligible to register for the Colorado Board of Barber/Cosmetology license examination.

**Occupational Certificate  
Cosmetology Occupations - Manicurist**

Credits		Course Number
	<u>Specialized Course Requirements- 20 Credits</u>	
3	Introduction to Manicures & Pedicures	NAT 110
2	Intermediate Manicures & Pedicures	NAT 111
1	Laws, Rules, & Regulations	COS 150
2	Introduction to Disinfection, Sanitation, & Safety	COS 160
1	Intermediate I: Disinfection, Sanitation, & Safety	COS 161
2	Advanced Manicures & Pedicures	NAT 210
5	Application of Artificial Nails	NAT 211
1	Management, Ethics, Interpersonal Skills, & Sales	COS 250
2	Intermediate II: Disinfection, Sanitation, & Safety	COS 260
1	Advanced Disinfection, Sanitation, & Safety	COS 261
<b>20</b>	<b>Total Required Credits</b>	
	<u>Electives(May be substituted for any Introduction, Intermediate, and Advanced Course)</u>	
0.5-6	Special Topics	NAT 275
0.5-6	Internship	NAT 280
0.5-6	Independent Study	NAT 285
0.5-10	Practicum	NAT 288
3	Advanced Nail Technician Studies	NAT 290

Upon successful completion of specialized courses, student may be eligible to register for the Colorado Board of Barber/Cosmetology license examination.

## Dental Hygiene

### Associate of Applied Science Dental Hygiene

Credits		Course Number
<b><u>GENERAL EDUCATION REQUIREMENTS – 32.5 Credits</u></b>		
4,4	<b>Human Anatomy and Physiology I and II</b>	<b>BIO 201, 202</b>
3	<b>English Composition</b>	<b>ENG 121</b>
3	Principles of Speech Communication	COM 115
3	<b>General Psychology</b>	<b>PSY 101</b>
3	<b>Introduction to Sociology</b>	<b>SOC 101</b>
4	<b>Microbiology</b>	<b>BIO 204</b>
5	<b>Intro to Chemistry II</b>	<b>CHE102</b>
(4)	<b>OR</b> <i>General, Organic, &amp; Biochemistry</i>	<i>CHE 109</i>
(5)	<b>OR</b> <b>General College Chemistry</b>	<b>CHE111</b>
1	Current Issues and Ethics in Dental Hygiene	PHI 121
3	Human Nutrition	HWE 100
0.5	CPR for Health Professionals	HPR 102
<b><u>Specialized Course Requirements-61</u></b>		
2	Pre-clinical Dental Hygiene Lecture	DEH 101
3	Pre-clinical Dental Hygiene Care	DEH 102
3	Dental Anatomy and Histology	DEH 103
3	Dental Radiology	DEH 104
2	Dental & Medical Emergencies	DEH 111
2	Dental Hygiene Clinic I Lecture	DEH 112
2	Preventive Dentistry & Special Needs Patients	DEH 116
2	Periodontics I	DEH 122
1	Immunology Aspects of Perio Disease	DEH 241
1	Head & Neck Anatomy	DEH 123
3	Clinical Practice of Dental Hygiene I	DEH 170
3	Clinical Practice of Dental Hygiene 1-A	DEH 171
3	Dental Materials	DEH 126
2	Applied Pharmacology	DEH 132
2	Local Anesthesia	DEH 133
1	Nitrous Oxide/Oxygen Sedation	DEH138
2	Clinic II Lecture	DEH 201
2	Community Dental Health I	DEH 204
3	General & Oral Pathology	DEH 213
1	Practice Management	DEH 203
1	Community Dental Health Field Experience	DEH 225
2	Periodontics II	DEH 242
2	Clinical Theory of Dental Hygiene II	DEH 268
6	Clinical Practice of Dental Hygiene II	DEH 270
6	Clinical Practice of Dental Hygiene III	DEH 271
1	Clinical Theory of Dental Hygiene III	DEH 285
<b>93.5</b>	<b>Total Required Credits</b>	

## Early Childhood

### Associate of Applied Science Early Childhood Professions

Credits	<u>General Education Requirements- 15 Credits</u>	Course Number
<u>3</u>	<u>Written Communication – 3 Credits</u> <b>English Composition I</b>	<b>ENG 121</b>
3	<u>Oral Communication – 3 Credits</u> Public Speaking	COM 115
<u>3</u>	<u>Mathematics – 3 Credits (Choose 1 Course)</u> Career Math <b>Math for Liberal Arts</b> <b>College Algebra</b>	MAT 107 <b>MAT 120</b> <b>MAT 121</b>
<u>6</u>	<u>Social &amp; Behavioral Sciences – 6 Credits</u> <b>General Psychology</b> <b>Introduction to Sociology</b>	<b>PSY 101</b> <b>SOC 101</b>
	<u>Specialized Course Requirements- 37 Credits</u>	
3	Introduction to Early Childhood Education	ECE 101
3	Introduction to Early Childhood Lab Techniques	ECE 102
3	Guidance Strategies for Children	ECE 103
3	Infant & Toddler Theory & Practice	ECE 111
3	Introduction to Infant & Toddler Lab Techniques	ECE 112
3	Nutrition, Health, & Safety	ECE 205
3	Curriculum Development: Methods & Techniques	ECE 220
3	Administration of Early Childhood Care & Education Programs	ECE 240
3	Administration: Human Relations for Early Childhood Education	ECE 241
3	Exceptional Child	ECE 260
<b>3</b>	<b>Child Development</b>	<b>PSY 238</b>
1	Early Childhood Education Practicum	ECE 188
3	Early Childhood Education Practicum	ECE 288
<u>9</u>	<u>Electives-9 Credits</u>	
4	Accounting Principles I	ACC 121
3	Introduction to PC Applications	CIS 118
3	Business Communication/Report Writing	BUS 217
1	Pre-Licensing Training for Family Child Care Providers	ECE 100
2	Art & the Young Child	ECE 126
1	Music/Movement for the Young Child	ECE 127
1	Special Topics	ECE 175
3	Language & Cognition for the Young Child	ECE 225
3	Creativity & the Young Child	ECE 226
<b>3</b>	<b>Sociology of Family Dynamics</b>	<b>SOC 205</b>
<b>3</b>	<b>Ethics</b>	<b>PHI 112</b>
<b>3</b>	<b>Music Appreciation</b>	<b>MUS 120</b>
3	Interpersonal Communication	COM 125
<b>3</b>	<b>Art Appreciation</b>	<b>ART 110</b>
3	Conversational Spanish I	SPA 101
3	Human Nutrition	HWE 100
<b>61</b>	<b>Total Required Credits</b>	

**Occupational Certificate  
Early Childhood Professions-Director**

Credits		Course Number
	<u>Specialized Course Requirements- 34 Credits</u>	
3	Introduction to Early Childhood Education	ECE 101
3	Introduction to Early Childhood Lab Techniques	ECE 102
3	Guidance Strategies for Children	ECE 103
3	Infant & Toddler Theory & Practice	ECE 111
3	Nutrition, Health, & Safety	ECE 205
3	Curriculum Development: Methods & Techniques	ECE 220
3	Administration of Early Childhood Care & Education Programs	ECE 240
3	Administration: Human Relations for Early Childhood Education	ECE 241
3	Exceptional Child	ECE 260
<b>3</b>	<b>Child Development</b>	<b>PSY 238</b>
1	Early Childhood Education Practicum	ECE 188
3	Early Childhood Education Practicum	ECE 288
<b>34</b>	<b>Total Required Credits</b>	

Updated 6/8/2010

**Occupational Certificate  
Early Childhood Professions-Lead Teacher**

Credits		Course Number
	<u>Specialized Course Requirements- 28 Credits</u>	
3	Introduction to Early Childhood Education	ECE 101
3	Introduction to Early Childhood Lab Techniques	ECE 102
3	Guidance Strategies for Children	ECE 103
3	Infant & Toddler Theory & Practice	ECE 111
3	Nutrition, Health, & Safety	ECE 205
3	Curriculum Development: Methods & Techniques	ECE 220
3	Exceptional Child	ECE 260
<b>3</b>	<b>Child Development</b>	<b>PSY 238</b>
1	Early Childhood Practicum	ECE188
3	Early Childhood Practicum	ECE 288
<b>28</b>	<b>Total Required Credits</b>	

**Occupational Certificate  
Early Childhood Professions-Early Childhood Teacher**

Credits		Course Number
	<u>Specialized Course Requirements- 16 Credits</u>	
3	Introduction to Early Childhood Education	ECE 101
3	Introduction to Early Childhood Lab Techniques	ECE 102
3	Guidance Strategies for Children	ECE 103
3	Curriculum Development: Methods & Techniques	ECE 220
<b>3</b>	<b>Child Development</b>	<b>PSY 238</b>
1	Early Childhood Practicum	ECE 188
<b>16</b>	<b>Total Required Credits</b>	

**Occupational Certificate  
Early Childhood Professions-Infant & Toddler**

Credits		Course Number
	<u>Specialized Course Requirements- 16 Credits</u>	
3	Introduction to Early Childhood Education	ECE 101
3	Guidance Strategies for Children	ECE 103
3	Infant & Toddler Theory & Practice	ECE 111
3	Introduction to Infant & Toddler Lab Techniques	ECE 112
<b>3</b>	<b>Child Development</b>	<b>PSY 238</b>
1	Early Childhood Practicum	ECE 188
<b>16</b>	<b>Total Required Credits</b>	

## Emergency Medical Services

### Associate of Applied Science Emergency Medical Services

Credits	<u>General Education Requirements- 18 Credits</u>	Course Number
<u>6</u>	<u>Written Communication – 6 Credits</u> <b>English Composition I</b> <b>English Composition II</b> or Technical Writing	<b>ENG 121</b> <b>ENG 122, 131</b>
<u>3</u>	<u>Oral Communication – 3 Credits</u> Public Speaking	COM 115
<u>3</u>	<u>Mathematics – 3 Credits</u> Career Math (107) or higher	MAT ____
<u>6</u>	<u>Social &amp; Behavioral Sciences – 6 Credits</u> <b>General Psychology</b> <b>Introduction to Sociology</b>	<b>PSY 101</b> <b>SOC 101</b>
	<u>Specialized Course Requirements- 28 Credits</u>	
9	EMT Basic	EMS 125
1	EMT Basic Clinical	EMS 170
2	EMT Intravenous Therapy	EMS 130
6	EMT Intermediate I	EMS 203
6	EMT Intermediate II	EMS 205
3	EMT Intermediate Clinical	EMS 270
1	ACLS	HPR 120
<u>3</u>	<u>Related Course Requirements- 3 Credits</u> Select Course from CIS or BTE	CIS__ BTE__
<u>11</u>	<u>Electives-11 Credits (Select from:)</u>  Select from SPA; EMS 150, 213, 214; EMS 175 (maximum 3 credits); MAN; PSY; SOC; BIO; MAT; ACC; BUS 115, 216, 217; CHE; FST; CRJ; ECO 201, 202; GIS; PED (maximum 2 credits); HPR 102, 130, 190; HWE 104; EDU	
<b>60</b>	<b>Total Required Credits</b>	

### Occupational Certificate Emergency Medical Technology-Basic

Pre-requisite: CPR for Professionals. (Students must provide proof of current certification through transcripts or possession of current certification card.)

Credits		Course Number
	<u>Specialized Course Requirements- 10 Credits</u>	
9	EMT Basic	EMS 125
1	EMT Basic Clinical	EMS 170
<b>10</b>	<b>Total Required Credits</b>	
	Optional:	
2	EMT Intravenous Therapy	EMS 130

Upon Successful completion of the Specialized Course Requirements, students may apply to the Colorado Department of Public Health & Environment, Health Facilities & Emergency Medical Services Division, Pre-Hospital Care Program EMT-Basic examination.

### Occupational Certificate Emergency Medical Technology-Intermediate

Pre-requisite: EMT Basic Certification (Students must provide proof of current certification through transcripts or possession of current certification card.)

Credits		Course Number
	<u>Specialized Course Requirements- 17 Credits</u>	
2	EMT Intravenous Therapy	EMS 130
6	EMT Intermediate I	EMS 203
6	EMT Intermediate II	EMS 205
3	EMT Intermediate Clinic	EMS 270
<b>17</b>	<b>Total Required Credits</b>	
	Optional:	
1	ACLS	HPR 120

Upon Successful completion of the Specialized Course Requirements, students may apply to the Colorado Department of Public Health & Environment, Health Facilities & Emergency Medical Services Division, Pre-Hospital Care Program EMT-Intermediate examination.

**Occupational Certificate  
Emergency Medical Technology-Professional**

Pre-requisite: EMT Basic Certification (Students must provide proof of current certification through transcripts or possession of current certification card.)

Credits		Course Number
	<u>Specialized Course Requirements- 8 Credits</u>	
	<i>Select courses from the following:</i>	
1	Pediatric Education for Pre-hospital Professionals (PEPP)	EMS 150
1-6	EMS Special Topics	EMS 175/275
1	Pre-hospital Trauma Support (PHTLS)	EMS 213
1	Basic Trauma Life Support (BTLS)	EMS 214
1	Pediatric Advanced Life Support (PALS)	HPR 130
2	Basic EKG Interpretation	HPR 190
1	CPR Instructor	HWE 104
1	ACLS	HPR 120
2	EMS Intravenous Therapy	EMS 130
<b>8</b>	<b>Total Required Credits</b>	

## Equine Studies

### Associate of Applied Science Equine Studies & Management

Credits		Course Number
	<u>General Education Requirements- 15 Credits</u>	
<u>3</u>	Introduction to PC Application	CIS 118
	<u>Written Communication – 3 Credits</u>	
<u>3</u>	<b>English Composition I (121)</b> or higher	<b>ENG ____</b>
	<u>Oral Communication – 3 Credits</u>	
<u>3</u>	Public Speaking	COM 115
	<u>Mathematics – 3 Credits</u>	
<u>3</u>	Career Math (107) or higher	MAT ____
	<u>Social &amp; Behavioral Sciences – 3 Credits</u>	
<u>3</u>	<b>General Psychology or Introduction to Sociology</b>	____ ____
	<u>Specialized Course Requirements- 39 Credits</u>	
4	Introduction to Equine Science	ASC 102
4	Horse Production	EQM 151
3	Equine Evaluation	EQM 153
2	Equine Reproduction	EQM 158
3	Lameness	EQM 215
3	Fundamentals of Riding Instruction	EQT 200
3	Management Practicum I	EQM 103
3	Management Practicum II	EQM 203
2	Elementary Western Equitation	ASC 143
2	Intermediate Western Equitation	ASC 243
3	Introduction to Business	BUS 115
7	Internship	EQM 280
	<u>Electives-7 Credits</u>	
<u>5</u>	Outfitting & General Guiding	ADG 150
2	Elementary English Equitation	ASC 145
2	Intermediate English Equitation	ASC 216
7	Basic Care & Training	HTM 152
<b>61</b>	<b>Total Required Credits</b>	

**Associate of Applied Science  
Equine Studies Training & Management**

Credits		Course Number
	<u>General Education Requirements- 15 Credits</u>	
<u>3</u>	Introduction to PC Application	CIS 118
	<u>Written Communication – 3 Credits</u>	
<u>3</u>	<b>English Composition I (121)</b> or higher	<b>ENG ____</b>
	<u>Oral Communication – 3 Credits</u>	
<u>3</u>	Public Speaking	COM 115
	<u>Mathematics – 3 Credits</u>	
<u>3</u>	Career Math (107) or higher	MAT ____
	<u>Social &amp; Behavioral Sciences – 3 Credits</u>	
<u>3</u>	<b>General Psychology</b> or <b>Introduction to Sociology</b>	____ ____
	<u>Specialized Course Requirements- 50 Credits</u>	
4	Introduction to Equine Science	ASC 102
4	Horse Production	EQM 151
3	Equine Evaluation	EQM 153
2	Equine Reproduction	EQM 158
3	Lameness	EQM 215
3	Management Practicum I	EQM 103
3	Management Practicum II	EQM 203
7	Basic Care & Training	HTM 152
2	Elementary Western Equitation	ASC 143
2	Intermediate Western Equitation	ASC 243
7	Specialized Training	HTM 253
3	Introduction to Business	BUS 115
7	Internship	EQM 280
<b>65</b>	<b>Total Required Credits</b>	

**Associate of Applied Science  
Equine Studies Farrier Science & Management**

\*Applicants must pass a riding test before being allowed to pursue this degree

Credits		Course Number
	<u>General Education Requirements- 15 Credits</u>	
<u>3</u>	Introduction to PC Application	CIS 118
	<u>Written Communication – 3 Credits</u>	
<u>3</u>	<b>English Composition I (121) or higher</b>	<b>ENG ____</b>
	<u>Oral Communication – 3 Credits</u>	
<u>3</u>	Public Speaking	COM 115
	<u>Mathematics – 3 Credits</u>	
<u>3</u>	Career Math (107) or higher	MAT ____
	<u>Social &amp; Behavioral Sciences – 3 Credits</u>	
<u>3</u>	<b>General Psychology OR Introduction to Sociology</b>	____ ____
	<u>Specialized Course Requirements- 47 Credits</u>	
4	Introduction to Equine Science	ASC 102
4	Horse Production	EQM 151
3	Equine Evaluation	EQM 153
2	Equine Reproduction	EQM 158
3	Lameness	EQM 215
3	Management Practicum I	EQM 103
3	Management Practicum II	EQM 203
4	Farrier Science I	FAS 100
4	Farrier Science II	FAS 110
4	Farrier Science III	FAS 120
3	Introduction to Business	BUS 115
10	Internship	EQM 280
<b>62</b>	<b>Total Required Credits</b>	

## General Education

### Associate of Arts

Credits		Course Number
<u>6</u>	<u>Written Communication (must be gtPathways approved) – 6 Credits</u> <b>CO1: English Composition I</b> <b>CO2: English Composition II</b>	<b>ENG 121</b> <b>ENG 122</b>
<u>3</u>	<u>Oral Communication – 3 Credits</u> Public Speaking Interpersonal Communication	COM 115 COM 125
<u>3</u>	<u>Mathematics (must be gtPathways approved) – 3 Credits</u> <b>MA1: Math for Liberal Arts (MAT 120) or higher</b>	<b>MAT _____</b>
<u>6</u>	<u>Arts &amp; Humanities (must be gtPathways approved) – 6 Credits</u> <u>from two different areas</u> <b>AH1: ART 110,111,112,207; MUS 120,121,122; THE 105,211,212;</b> <b>AH2: HUM 121,122,123; LIT 115,201,202,205,211,212,221,222,225;</b> <b>AH3: PHI 111,112,113,114,214, 218;</b> <b>AH4: FRE/GER/ITA/JPN/RUS/SPA 211,212</b>	<b>AH __ _____</b> <b>AH__ _____</b>
<u>3</u>	<u>History (must be gtPathways approved)– 3 Credits</u> <b>HI1: HIS 101,102,111,112,201,202,225,236</b>	<b>HIS _____</b>
<u>6</u>	<u>Social &amp; Behavioral Science (must be gtPathways approved) – 6 Credits</u> <b>SS1: ECO 201,202; POS 105,111,205,225;</b> <b>SS2: GEO 105,106;</b> <b>SS3: ANT 101,107,111; PSY 101,102,205,217,226,227,235,238,249;</b> <b>SOC 101,102,205,215,216,231,237</b>	<b>SS__ _____</b> <b>SS__ _____</b>
<u>3</u>	<u>Student Option – Choose 1 Course – 3 Credits</u> Choose one additional gtPathways course from one of the following areas: <b>AH1,AH2,AH3,AH4,H1,SS1,SS2,SS3</b>	_____ _____
<u>7</u>	<u>Natural &amp; Physical Science (must be gtPathways approved) – 7 Credits</u> <b>SC1: AGY 240; AST 101,102; BIO 105,111,112,201,202,204; CHE 101,102,105,111,112; ENV 101; GEY 111,121; MET 150; NRE 251; PHY 105,111,112,211,212; SCI 155,156</b>	<b>SC1 _____</b> <b>SC1 _____</b>
<u>23</u>	<u>Electives – 23 Credits</u> <b>The elective credits may be chosen from the State Guaranteed General Education Transfer courses listed in this catalog or from any of the following courses:</b> AAA,ANT, ART, BIO, CHE, COM, CSC, ECO, ENG (121 or higher), FRE, GEO, GER, GEY, HIS, HUM, ITA, JOU, JPN, LIT, MAT (120 or higher), MUS, PHI, PHY, POS, PSY, RUS, SOC, SPA, THE <u>A Maximum of 8 credit hours from the following:</u> ACC 121,122; AGY,ASC 102 BUS 115, 216, 217, 226; CAD 101, 110, 233; CIS 118, 124; CRJ 110, 210; EDU 221; EGG 101,260,261; GIS, HPR 102, 178, 217; HWE 100, 237; MAN 226; MAR 216; NRE, PED (2 credit maximum), PER	
<b>60</b>	<b>Total Required Credits</b>	

**Associate of Arts  
Degree Designation in Anthropology**

\*Will require classes to be taken either through CCCOnline or through reverse transfer to complete degree.

Credits		Course Number
<b>6</b>	<u>Written Communication(must be gtPathways approved) – 6 Credits</u> <b>CO1: English Composition I and CO2: English Composition II or English Composition II and a gtPathways- approved CO3 course ENG 201 or HIS 265</b>	<b>ENG 121 ENG 122 or ENG 122 and ENG 201 or HIS 265</b>
<b>3</b>	<u>Oral Communication – 3 Credits</u> Public Speaking <b>or</b> Interpersonal Communication <b>or</b> Intercultural Communication	<b>COM 115 or COM 125 or COM 220</b>
<b>4</b>	<u>Mathematics(must be gtPathways approved) – 4 Credits</u> <b>MA1: College Algebra</b>	<b>MAT121</b>
<b>6</b>	<u>Arts &amp; Humanities (must be gtPathways approved) – 6 Credits</u> <b>AH1: ART 110,111,112,207; MUS 120,121,122; THE 105,211,212; AH2: HUM 121,122,123; LIT 115,201,202,205,211,212,221,222,225; AH3: PHI 111,112,113,114,214,218; AH4: FRE/GER/ITA/JPN/RUS/SPA 211,212</b>	<b>AH ____ AH ____</b>
<b>6</b>	<u>Social &amp; Behavioral Sciences(must be gtPathways approved) – 6 Credits</u> <b>SS1: ECO 201,202; POS 105,111,205,225; SS2: GEO 105,106; SS3: ANT 101,107,111; PSY 101,102,205,217,226,227,235,238,249 SOC 101,102,205,215,216,231,237</b>	<b>SS ____ SS ____</b>
<b>3</b>	<u>History (must be gtPathways approved)– 3 Credits</u> <b>H11: HIS 101,102,111,112,201,202,225,236</b>	<b>HIS ____</b>
<b>8</b>	<u>Natural &amp; Physical Science(must be gtPathways approved) - (Choose 2) – 8 Credits</u> <b>SC1: AGY 240; AST 101,102; BIO 105,111,112,201,202,204; CHE 101,102,105,111,112; ENV 101; GEY 111,121; MET 150; NRE 251; PHY 105,111,112,211,212; SCI 155,156</b>	<b>SC1 ____ SC1 ____</b>
	<u>Specialized Course Requirements- 20 Credits</u>	
<b>3</b>	<b>Cultural Anthropology</b>	<b>ANT 101</b>
<b>3</b>	<b>Introduction to Archaeology</b>	<b>ANT 107</b>
<b>3</b>	<b>Physical Anthropology</b>	<b>ANT 111**</b>
<b>3</b>	One additional gtPathways <b>ANT</b> in Social & Behavioral Sciences (GT-SS3)	<b>ANT ____</b>
<b>3</b>	One additional gyPathways Social & Behavioral Sciences (GT-SS2 <b>or</b> GT SS3)	<b>SS ____</b>
<b>3</b>	One additional gtpathways Arts & Humanities ( <b>GT-AH1, GT-AH2, GT-AH3, GT-AH4</b> )	<b>AH ____</b>

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6 Electives-6 Credits

**The elective credits may be chosen from the State Guaranteed General Education Transfer courses listed in this catalog or from any of the following courses:**

AAA, ANT, ART, BIO, CHE, COM, CSC, ECO, ENG (121 or higher), FRE, GEO, GER, GEY, HIS, HUM, ITA, JOU, JPN, LIT, MAT (120 or higher), MUS, PHI, PHY, POS, PSY, RUS, SOC, SPA, THE

A Maximum of 8 credit hours from the following:

ACC 121,122; AGY,ASC 102 BUS 115, 216, 217, 226; CAD 101, 110, 233; CIS 118, 124; CRJ 110, 210; EDU 221; EGG 101,260,261; GIS, HPR 102, 178, 217; HWE 100, 237; MAN 226; MAR 216; NRE, PED (2 credit maximum), PER

60 **Total Required Credits**

**Please note: Additional ANT courses beyond the 4 courses (12 credit hours) identified above may not count toward the Anthropology major at the receiving 4 year institution. See limitations section.**

**\*\*Some receiving institutions require a lab attached to this course; please consult with the receiving institution.**

## Associate of Arts Degree Designation in Business

\*Will require classes to be taken either through CCCOnline or through reverse transfer to complete degree

Credits		Course Number
<u>6</u>	<u>Written Communication (must be qtPathways approved) – 6 Credits</u> CO1: English Composition I CO2: English Composition II	ENG 121 ENG 122
<u>3</u>	<u>Oral Communication – 3 Credits</u> Public Speaking	COM 115
<u>8</u>	<u>Mathematics – 8 Credits</u> MA1: Math for Liberal Arts or Finite Mathematics Survey of Calculus or higher level Calculus course	MAT120,123 MAT 125, __
<u>6</u>	<u>Arts &amp; Humanities (must be qtPathways approved) – 6 Credits</u> AH1: ART 110,111,112,207; MUS 120,121,122; THE 105,211,212; AH2: HUM 121,122,123; LIT 115,201,202,205,211,212,221,222,225; AH3: PHI 111,112,113,114,214,218; AH4: FRE/GER/ITA/JPN/RUS/SPA 211,212	AH __ ____ AH__ ____
<u>6</u>	<u>Social &amp; Behavioral Sciences(must be qtPathways approved) – 6 credits</u> Macroeconomics Microeconomics	ECO 201 ECO 202
<u>3</u>	<u>History (must be qtPathways approved)– 3 Credits</u> HI1: HIS 101,102,111,112,201,202,225,236	HIS ____
<u>8</u>	<u>Natural &amp; Physical Science(must be qtPathways approved) -(Choose 2)</u> <u>– 8 Credits</u> SC1: AGY 240; AST 101,102; BIO 105,111,112,201,202,204; CHE 101,102,105,111,112; ENV 101; GEY 111,121; MET 150; NRE 251; PHY 105,111,112,211,212; SCI 155,156	SC1 ____ SC1 ____
	<u>Specialized Course Requirements – 20 Credits</u>	
4	Accounting Principles I	ACC 121
4	Accounting Principles II	ACC 122
3	Introduction to Business	BUS 115
3	Legal Environment of Business	BUS 216
3	Business Communication & Report Writing	BUS 217
3	Business Statistics	BUS 226
<b>60</b>	<b>Total Required Credits</b>	

## Associate of Arts Degree Designation in Economics

\*Will require classes to be taken either through CCCOnline or through reverse transfer to complete degree.

Credits		Course Number
<u>6</u>	<u>Written Communication(must be qtPathways approved) – 6 Credits</u> <b>CO1: English Composition I</b> <b>CO2: English Composition II</b>	<b>ENG 121</b> <b>ENG 122</b>
<u>5</u>	<u>Mathematics – 5 Credits</u> <b>MA1: Calculus I</b>	<b>MAT 201</b>
<u>9</u>	<u>Arts &amp; Humanities (must be qtPathways approved) – 6 Credits</u> <b>AH1: ART 110,111,112,207; MUS 120,121,122; THE 105,211,212;</b> <b>AH2: HUM 121,122,123; LIT 115,201,202,205,211,212,221,222,225;</b> <b>AH3: PHI 111,112,113,114,214,218;</b> <b>AH4: FRE/GER/ITA/JPN/RUS/SPA 211,212</b>	<b>AH __ ____</b> <b>AH__ ____</b> <b>AH__ ____</b>
<u>6</u>	<u>Social &amp; Behavioral Sciences(must be qtPathways approved) -6 Credits</u> <b>Macroeconomics</b> <b>Microeconomics</b>	<b>ECO 201</b> <b>ECO 202</b>
<u>3</u>	<u>History – 3 Credits</u> <b>H11: HIS 101,102,111,112,201,202,225,236</b>	<b>HIS ____</b>
<u>8</u>	<u>Natural &amp; Physical Science(must be qtPathways approved)-(Choose 2)</u> <u>– 8 Credits</u> <b>SC1: AGY 240; AST 101,102; BIO 105,111,112,201,202,204;</b> <b>CHE 101,102,105,111,112; ENV 101; GEY 111,121; MET 150;</b> <b>NRE 251; PHY 105,111,112,211,212; SCI 155,156</b>	<b>SC1 ____</b> <b>SC1 ____</b>
<u>20</u>	<u>Electives – 20 Credits</u> <b>The elective credits may be chosen from the State Guaranteed General Education Transfer courses listed in this catalog or from any of the following courses:</b> AAA, ANT, ART, BIO, CHE, COM, CSC, ECO, ENG (121 or higher), FRE, GEO, GER, GEY, HIS, HUM, ITA, JOU, JPN, LIT, MAT (120 or higher), MUS, PHI, PHY, POS, PSY, RUS, SOC, SPA, THE <u>A Maximum of 8 credit hours from the following:</u> ACC 121,122; AGY,ASC 102 BUS 115, 216, 217, 226; CAD 101, 110, 233; CIS 118, 124; CRJ 110, 210; EDU 221; EGG 101,260,261; GIS, HPR 102, 178, 217; HWE 100, 237; MAN 226; MAR 216; NRE, PED (2 credit maximum), PER	
<b>60</b>	<b>Total Required Credits</b>	

**Associate of Arts  
Statewide Articulation Agreement Elementary Teacher Education**

**\*Will require classes to be taken either through CCCOnline or through reverse transfer to complete degree.**

Credits		Course Number
<u>6</u>	<u>Written Communication(must be qtPathways approved) – 6 Credits</u> <b>CO1: English Composition I</b> <b>CO2: English Composition II</b> *Must earn a “B” or higher*	<b>ENG 121</b> <b>ENG 122</b>
<u>6</u>	<u>Mathematics – 6 Credits</u> Integrated Math I Integrated Math II	MAT 155 MAT 156
<u>3</u>	<u>Arts &amp; Humanities (must be qtPathways approved)–3 Credits (Choose 1)</u> <b>LIT 115,201,202,211,221</b>	LIT ____
<u>9</u>	<u>Social &amp; Behavioral Sciences(must be qtPathways approved) -9 Credits</u> <b>World Regional Geography</b> <b>U.S. History 1</b> <b>American Government</b>	<b>GEO 105</b> <b>HIS 201</b> <b>POS 111</b>
<u>3</u>	<u>History – 3 Credits</u> <b>H11: HIS 101,102,111,112,201,202,225,236</b>	<b>HIS ____</b>
<u>8</u>	<u>Natural &amp; Physical Science(must be qtPathways approved)– 8 Credits</u> <b>Integrated Science I</b> <b>Integrated Science II</b>	<b>SCI 155</b> <b>SCI 156</b>
<u>6</u>	<u>Specialized Course Requirements</u> Introduction to Education <b>Child Development</b>	EDU 221 <b>PSY 238</b>
<u>19</u>	<u>For Qualifying Credits Please Visit this link:</u> <a href="http://highered.colorado.gov/Academics/Transfers/Agreements/eled-other19.pdf">http://highered.colorado.gov/Academics/Transfers/Agreements/eled-other19.pdf</a>	
<b>60</b>	<b>Total Required Credits</b>	

\*Some institutions may require prescribed general education courses (e.g. music) in addition to the courses listed above. If so, these must either be included among the final 19 credit hours at the community college or must be completed at the four-year institution to complete the baccalaureate degree.

## Associate of Arts Degree Designation in French

\*Will require classes to be taken either through CCCOnline or through reverse transfer to complete degree.

Credits		Course Number
<u>6</u>	<u>Written Communication(must be gtPathways approved) – 6 Credits</u> CO1: English Composition I CO2: English Composition II <u>or</u> English Composition II and a gtPathways- approved CO3 course ENG 201 <u>or</u> HIS 265	ENG 121 ENG 122 <u>or</u> ENG 122 <u>and</u> ENG 201 <u>or</u> HIS 265
<u>3</u>	<u>Mathematics –3 Credits</u> MA1: Math for Liberal Arts (MAT 120) or higher ( <u>not</u> MAT 155 or 156)	MAT ____
<u>9</u>	<u>Arts &amp; Humanities (must be gtPathways approved) – 9 Credits</u> French Language III French Language IV <u>and</u> one gtPathways approved course AH1: ART 110,111,112,207; MUS 120,121,122; THE 105,211,212; AH2: HUM 121,122,123; LIT 115,201,202,205,211,212,221,222,225; AH3: PHI 111,112,113,114,214,218; AH4: FRE/GER/ITA/JPN/RUS/SPA 211,212	FRE 211 FRE 212 <u>and</u> AH ____
<u>3</u>	<u>Social &amp; Behavioral Sciences (must be gtPathways approved) -3 Credits</u> SS1: ECO 201,202; POS 105,111,205,225; SS2: GEO 105,106; SS3: ANT 101,107,111; PSY 101,102,205,217,226,227,235,238,249; SOC 101,102,205,215,216,231,237	SS ____
<u>3</u>	<u>History (must be gtPathways approved) – 3 Credits</u> HI1: HIS 101,102,111,112,201,202,225,236	HIS ____
<u>7</u>	<u>Natural &amp; Physical Science(must be gtPathways approved)- (Choose 2)</u> <u>– 7 Credits</u> SC1: AGY 240; AST 101,102; BIO 105,111,112,201,202,204; CHE 101,102,105,111,112; ENV 101; GEY 111,121; MET 150; NRE 251; PHY 105,111,112,211,212; SCI 155,156	SC1 ____ SC1 ____
<u>10</u>	<u>Specialized Course Requirements-10</u> French Language I French Language II	FRE 111** FRE 112**

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**19**     Electives – 19 Credits **The elective credits may be chosen from the State Guaranteed General Education Transfer courses listed in this catalog or from any of the following courses:**

AAA, ANT, ART, BIO, CHE, COM, CSC, ECO, ENG (121 or higher),  
 FRE, GEO, GER, GEY, HIS, HUM, ITA, JOU, JPN, LIT, MAT (120 or  
 higher), MUS, PHI, PHY, POS, PSY, RUS, SOC, SPA, THE

A Maximum of 8 credit hours from the following:

ACC 121,122; AGY,ASC 102 BUS 115, 216, 217, 226; CAD 101, 110,  
 233; CIS 118, 124; CRJ 110, 210; EDU 221; EGG 101,260,261; GIS,  
 HPR 102, 178, 217; HWE 100, 237; MAN 226; MAR 216; NRE, PED (2  
 credit maximum), PER

**60**     **Total Required Credits**

**\*\*FRE 111 & 112 may be waived, based on student's proficiency level.**

**Please note:** Degree tracks in French for the Professions and French with Secondary Teacher Licensure have different requirements and are not included in this agreement.

**Please note:** It is a recommended, but not required, that a student take either COM 115 (Public Speaking) or COM 125 (Interpersonal Communications).

**Associate of Arts  
Degree Designation in History**

**\*Will require classes to be taken either through CCCOnline or through reverse transfer to complete degree.**

Credits		Course Number
<b><u>6</u></b>	<b><u>Written Communication (must be qtPathways approved) – 6 Credits</u></b> <b>CO1: English Composition I</b> <b>CO2: English Composition II</b>	<b>ENG 121</b> <b>ENG 122</b>
<b><u>3</u></b>	<b><u>Oral Communication – 3 Credits</u></b> Public Speaking or Interpersonal Communications	COM 115,125
<b><u>3</u></b>	<b><u>Mathematics (must be qtPathways approved) – 3 Credits</u></b> <b>MA1: Math for Liberal Arts (120) or higher</b> (excluding Integrated Math I & II)	<b>MAT _____</b>
<b><u>9</u></b>	<b><u>Arts &amp; Humanities (must be qtPathways approved)– (Choose 2 Courses)</u></b> <b>AH1: ART 110,111,112,207; MUS 120,121,122; THE 105,211,212;</b> <b>AH2: HUM 121,122,123; LIT 115,201,202,205,211,212,221,222,225;</b> <b>AH3: PHI 111,112,113,114,214,218;</b> <b>AH4: FRE/GER/ITA/JPN/RUS/SPA 211,212</b>	<b>AH_ _____</b> <b>AH_ _____</b>
<b><u>6</u></b>	<b><u>Social &amp; Behavioral Science (must be qtPathways approved) – 6 Credits</u></b> <b>SS1: ECO 201,202; POS 105,111,205,225;</b> <b>SS2: GEO 105,106;</b> <b>SS3: ANT 101,107,111; PSY 101,102,205,217,226,227,235,238,249;</b> <b>SOC 101,102,205,215,216,231,237</b>	<b>SS_ _____</b> <b>SS_ _____</b>
<b><u>3</u></b>	<b><u>History (must be qtPathways approved) – 3 Credits</u></b> <b>HI1: HIS 101 or</b> <b>HI1: HIS 111</b>	<b>HIS _____</b>
<b><u>7</u></b>	<b><u>Natural &amp; Physical Science (must be qtPathways approved) – 7 Credits</u></b> <b>SC1: AGY 240; AST 101,102; BIO 105,111,112,201,202,204;</b> <b>CHE 101,102,105,111,112; ENV 101; GEY 111,121; MET 150;</b> <b>NRE 251; PHY 105,111,112,211,212; SCI 155,156</b>	<b>SC1 _____</b> <b>SC1 _____</b>
<b><u>12</u></b>	<b><u>Specialized Course Requirements – 12 Credits</u></b> <b>History of Western Civilization II or</b> <b>World Civilizations II</b> <b>United States History I</b> <b>United States History II</b> <b>Choose 1 additional History course (HI1)</b>	<b>HIS 102 or 112</b>  <b>HIS 201</b> <b>HIS 202</b> <b>HIS _____</b>

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**11**     Electives – 11 Credits

**The elective credits may be chosen from the State Guaranteed General Education Transfer courses listed in this catalog or from any of the following courses:**

AAA, ACC 121,122;AGY,ANT,ART,BIO,BUS 115, 216,217,226; CAD 101, 110, 233;CHE,CIS 118,124,COM,CRJ 110,220; ECO,EDU 221,EGG 101,260,261;ENG (120 or higher),FRE,GEO,GER,GEY,GIS,HIS, HPR 102,178,217;HUM,HWE 100, 237,ITA,JOU,JPN, LIT, MAT(120 or higher),MUS,NRE,PED (2 credit maximum),PER,PHI,PHY,PSY,RUS,SCI, SOC,SPA,THE

**60**     **Total Required Credits**

**\*\*Students planning to transfer to University of Colorado at Boulder must take either HIS 101 or HIS 102 to fulfill this requirement.**

**\*\*\*Students planning to transfer to CSU-Ft. Collins are advised to complete at least two semesters of one college level foreign language.**

## Associate of Arts Degree Designation in Mathematics

\*Will require classes to be taken either through CCOOnline or through reverse transfer to complete degree

Credits		Course Number
<u>6</u>	<u>Written Communication (must be qtPathways approved) – 6 Credits</u> CO1: English Composition I CO2: English Composition II <u>or</u> CO2: English Composition II and a qtPathways- approved CO3 course ENG 201 <u>or</u> HIS 265	ENG 121 ENG 122 <u>or</u> ENG 122 <u>and</u> ENG 201 <u>or</u> HIS 265
<u>3</u>	<u>Oral Communication – 3 Credits</u> Public Speaking <u>or</u> Interpersonal Communication	COM 115 COM 125
<u>5</u>	<u>Mathematics (must be qtPathways approved) – 5 Credits</u> MA1: Calculus I	MAT 201
<u>9</u>	<u>Arts &amp; Humanities (must be qtPathways approved) – 6 Credits</u> <u>from two different areas</u> AH1: ART 110,111,112,207; MUS 120,121,122; THE 105,211,212; AH2: HUM 121,122,123; LIT 115,201,202,205,211,212,221,222,225; AH3: PHI 111,112,113,114,214, 218; AH4: FRE/GER/ITA/JPN/RUS/SPA 211,212	AH ____ AH ____ AH ____
<u>3</u>	<u>History (must be qtPathways approved)– 3 Credits</u> HI1: HIS 101,102,111,112,201,202,225,236	HIS ____
<u>6</u>	<u>Social &amp; Behavioral Science (must be qtPathways approved) – 6 Credits</u> SS1: ECO 201,202; POS 105,111,205,225; SS2: GEO 105,106; SS3: ANT 101,107,111; PSY 101,102,205,217,226,227,235,238,249; SOC 101,102,205,215,216,231,237	SS ____ SS ____
<u>10</u>	<u>Natural &amp; Physical Science (must be qtPathways approved) –10 Credits</u> Calculus Based Physics I Calculus Based Physics II	PHY 211 PHY 212
<u>13-14</u>	<u>Specialized Course Requirements-13-14</u> Calculus II Calculus III <u>or</u> Calculus III with Engineering Applications Computer Science I**	MAT 202 MAT 203 <u>or</u> MAT 204 CSC 160**
<u>4-5</u>	<u>Electives – 4-5 Credits</u> <b>The elective credits may be chosen from the State Guaranteed General Education Transfer courses listed in this catalog or from any of the following courses:</b> AAA, ANT, ART, BIO, CHE, COM, CSC, ECO, ENG (121 or higher), FRE, GEO, GER, GEY, HIS, HUM, ITA, JOU, JPN, LIT, MAT (120 or higher), MUS, PHI, PHY, POS, PSY, RUS, SOC, SPA, THE <u>A Maximum of 8 credit hours from the following:</u> ACC 121,122; AGY,ASC 102 BUS 115, 216, 217, 226; CAD 101, 110, 233; CIS 118, 124; CRJ 110, 210; EDU 221; EGG 101,260,261; GIS, HPR 102, 178, 217; HWE 100, 237; MAN 226; MAR 216; NRE, PED (2 credit maximum), PER	
<b>60</b>	<b>Total Required Credits</b>	

\*\*CSU-Ft. Collins requires a different computer science course than the community college course. Students should seek advising at CSU-Ft. Collins for information on the appropriate computer science course to take.

## Associate of Arts Degree Designation in Political Science

\*Will require classes to be taken either through CCCOnline or through reverse transfer to complete degree.

Credits		Course Number
<u>6</u>	<u>Written Communication (must be gtPathways approved) – 6 Credits</u> CO1: English Composition I CO2: English Composition II <u>or</u> CO2: English Composition II and a gtPathways- approved CO3 course ENG 201 <u>or</u> HIS 265	ENG 121 ENG 122 <u>or</u> ENG 122 <u>and</u> ENG 201 <u>or</u> HIS 265
<u>3</u>	<u>Mathematics (must be gtPathways approved) – 3 Credits</u> MA1: Math for Liberal Arts (MAT 120) or higher	MAT ____
<u>6</u>	<u>Arts &amp; Humanities (must be gtPathways approved) – 6 Credits</u> <u>from two different areas</u> AH1: ART 110,111,112,207; MUS 120,121,122; THE 105,211,212; AH2: HUM 121,122,123; LIT 115,201,202,205,211,212,221,222,225; AH3: PHI 111,112,113,114,214, 218; AH4: FRE/GER/ITA/JPN/RUS/SPA 211,212	AH ____ AH ____
<u>3</u>	<u>History (must be gtPathways approved)– 3 Credits</u> HI1: HIS 101,102,111,112,201,202,225,236	HIS ____
<u>6</u>	<u>Social &amp; Behavioral Science (must be gtPathways approved) – 6 Credits</u> Macroeconomics Microeconomics	ECO 201 ECO 202
<u>8</u>	<u>Natural &amp; Physical Science (must be gtPathways approved) – 8 Credits</u> SC1: AGY 240; AST 101,102; BIO 105,111,112,201,202,204; CHE 101,102,105,111,112; ENV 101; GEY 111,121; MET 150; NRE 251; PHY 105,111,112,211,212; SCI 155,156	SC1 ____ SC1 ____
<u>12</u>	<u>Specialized Course Requirements-12</u> Introduction to Political Science American Government International Relations Comparative Government	POS 105 POS 111 POS 205 POS 225
<u>16</u>	<u>Electives –16 Credits</u> <b>The elective credits may be chosen from the State Guaranteed General Education Transfer courses listed in this catalog or from any of the following courses:</b> AAA, ANT, ART, BIO, CHE, COM, CSC, ECO, ENG (121 or higher), FRE, GEO, GER, GEY, HIS, HUM, ITA, JOU, JPN, LIT, MAT (120 or higher), MUS, PHI, PHY, POS, PSY, RUS, SOC, SPA, THE <u>A Maximum of 8 credit hours from the following:</u> ACC 121,122; AGY,ASC 102 BUS 115, 216, 217, 226; CAD 101, 110, 233; CIS 118, 124; CRJ 110, 210; EDU 221; EGG 101,260,261; GIS, HPR 102, 178, 217; HWE 100, 237; MAN 226; MAR 216; NRE, PED (2 credit maximum), PER	
<b>60</b>	<b>Total Required Credits</b>	

\*\*Additional Political Science (POS) courses beyond the 4 courses (12 credit hours) identified above may not count toward the Political Science major at the receiving 4-year institutions. See explanation in limitations section, pg 48.

## Associate of Arts Degree Designation in Psychology

\*Will require classes to be taken either through CCCOnline or through reverse transfer to complete degree

Credits		Course Number
<u>6</u>	<u>Written Communication (must be gtPathways approved) – 6 Credits</u> <b>CO1: English Composition I</b> <b>CO2: English Composition II <u>or</u></b> <b>CO2: English Composition II and a gtPathways- approved CO3 course</b> <b>ENG 201 <u>or</u> HIS 265</b>	<b>ENG 121</b> <b>ENG 122 <u>or</u></b> <b>ENG 122 <u>and</u></b> <b>ENG 201 <u>or</u></b> <b>HIS 265</b>
<u>3</u>	<u>Oral Communication – 3 Credits</u> Public Speaking <u>or</u> Interpersonal Communication	COM 115 COM 125
<u>3-4</u>	<u>Mathematics (must be gtPathways approved) – 4 Credits</u> <b>MA1: College Algebra</b>	<b>MAT 121</b>
<u>9</u>	<u>Arts &amp; Humanities (must be gtPathways approved) (choose from at least 2 categories) – 9 Credits</u> <b>AH1: ART 110,111,112,207; MUS 120,121,122; THE 105,211,212;</b> <b>AH2: HUM 121,122,123; LIT 115,201,202,205,211,212,221,222,225;</b> <b>AH3: PHI 111,112,113,114,214,218;</b> <b>AH4: FRE/GER/ITA/JPN/RUS/SPA 211,212</b>	<b>AH_ ____</b> <b>AH_ ____</b> <b>AH_ ____</b>
<u>3</u>	<u>History(must be gtPathways approved) – 3 Credits</u> <b>H11: HIS 101,102,111,112,201,202,225,236</b>	<b>HIS ____</b>
<u>6</u>	<u>Social &amp; Behavioral Science (must be gtPathways approved) – 6 Credits</u> <b>SS1: ECO 201,202; POS 105,111,205,225;</b> <b>SS2: GEO 105,106;</b> <b>SS3: ANT 101,107,111; PSY 101,102,205,217,226,227,235,238,249;</b> <b>SOC 101,102,205,215,216,231,237</b>	<b>SS_ ____</b> <b>SS_ ____</b>
<u>7-8</u>	<u>Natural &amp; Physical Science(must be gtPathways approved) – 7-8 Credits</u> Choose 1 gtPathways <b>Biology Course (SC1)</b> and choose 1 course from the following: <b>AGY 240; AST 101,102; BIO 105,111,112,201,202,204;</b> <b>CHE 101,102,105,111,112; ENV 101; GEY 111,121; MET 150;</b> <b>NRE 251; PHY 105,111,112,211,212; SCI 155,156</b>	<b>BIO ____</b> <b>SC1 ____</b>
<u>18</u>	<u>Specialized Course Requirements – 18 Credits</u> <b>General Psychology I</b> <b>General Psychology II</b> Choose 3 additional <b>PSY</b> courses (must be gtPathways)	<b>PSY 101</b> <b>PSY 102</b> <b>PSY ____</b>
<u>6-8</u>	<u>Electives – 8 Credits</u> <b>The elective credits may be chosen from the State Guaranteed General Education Transfer courses listed in this catalog or from any of the following courses:</b> AAA, ACC 121,122;AGY,ANT,ART,BIO,BUS 115, 216,217,226; CAD 101,110, 233;CHE,CIS 118,124,COM,CRJ 110,220; ECO,EDU 221,EGG 101,260,261;ENG (120 or higher),FRE,GEO,GER,GEY,GIS,HIS, HPR 102,178,217;HUM,HWE 100, 237,ITA,JOU,JPN, LIT, MAT(120 or higher),MUS,NRE,PED (2 credit maximum),PER,PHI,PHY,PSY,RUS,SCI, SOC,SPA,THE	
<b>60</b>	<b>Total Required Credits</b>	

## Associate of Arts Degree Designation in Sociology

Credits		Course Number
<u>6</u>	<u>Written Communication (must be gtPathways approved) – 6 Credits</u> <b>CO1: English Composition I</b> <b>CO2: English Composition II <u>or</u></b> <b>CO2: English Composition II <u>and</u> a gtPathways- approved CO3 course</b> <b>ENG 201 <u>or</u> HIS 265</b>	<b>ENG 121</b> <b>ENG 122 <u>or</u></b> <b>ENG 122 <u>and</u></b> <b>ENG 201 <u>or</u></b> <b>HIS 265</b>
<u>3</u>	<u>Oral Communication – 3 Credits</u> Public Speaking <u>or</u> Interpersonal Communication	COM 115 COM 125
<u>3-4</u>	<u>Mathematics (must be gtPathways approved) – 4 Credits</u> <b>MA1: College Algebra <u>or</u></b> <b>Statistics</b>	<b>MAT 121 <u>or</u></b> <b>MAT 135</b>
<u>9</u>	<u>Arts &amp; Humanities(must be gtPathways approved) (choose from at least 2 categories) – 9 Credits</u> <b>AH1: ART 110,111,112,207; MUS 120,121,122; THE 105,211,212;</b> <b>AH2: HUM 121,122,123; LIT 115,201,202,205,211,212,221,222,225;</b> <b>AH3: PHI 111,112,113,114,214,218;</b> <b>AH4: FRE/GER/ITA/JPN/RUS/SPA 211,212</b>	<b>AH_ _____</b> <b>AH_ _____</b> <b>AH_ _____</b>
<u>3</u>	<u>History(must be gtPathways approved) – 3 Credits</u> <b>H11: HIS 101,102,111,112,201,202,225,236</b>	<b>HIS _____</b>
<u>6</u>	<u>Social &amp; Behavioral Science(must be gtPathways approved) – 6 Credits</u> <b>SS1: ECO 201,202; POS 105,111,205,225;</b> <b>SS2: GEO 105,106;</b> <b>SS3: ANT 101,107,111; PSY 101,102,205,217,226,227,235,238,249;</b> <b>SOC 101,102,205,215,216,231,237</b>	<b>SS_ _____</b> <b>SS_ _____</b>
<u>8</u>	<u>Natural &amp; Physical Science (must be gtPathways approved) – 8 Credits</u> <b>AGY 240; AST 101,102; BIO 105,111,112,201,202,204;</b> <b>CHE 101,102,105,111,112; ENV 101; GEY 111,121; MET 150;</b> <b>NRE 251; PHY 105,111,112,211,212; SCI 155,156</b>	<b>SC1 _____</b> <b>SC1 _____</b>
<u>18</u>	<u>Specialized Course Requirements – 18 Credits</u> <b>Introduction to Sociology</b> <b>Introduction to Sociology II</b> Choose 3 additional <b>SOC</b> courses ( <b>must be gtPathways</b> )	<b>SOC 101</b> <b>SOC 102</b> <b>PSY _____</b>
<u>6-7</u>	<u>Electives – 6-7 Credits</u> <b>The elective credits may be chosen from the State Guaranteed General Education Transfer courses listed in this catalog or from any of the following courses:</b> AAA, ACC 121,122;AGY,ANT,ART,BIO,BUS 115, 216,217,226; CAD 101, 110, 233;CHE,CIS 118,124,COM,CRJ 110,220; ECO,EDU 221,EGG 101,260,261;ENG (120 or higher),FRE,GEO,GER,GEY,GIS,HIS, HPR 102,178,217;HUM,HWE 100, 237,ITA,JOU,JPN, LIT, MAT(120 or higher),MUS,NRE,PED (2 credit maximum),PER,PHI,PHY,PSY,RUS,SCI, SOC,SPA,THE	
<b>60</b>	<b>Total Required Credits</b>	

**Please note:** Additional SOC courses beyond the 5 courses (15 credit hours) identified above may not count toward the Sociology major at the receiving 4-year institution. See explanation in Limitation Section, pg 48.

## Associate of Arts Degree Designation in Spanish

\*Will require classes to be taken either through CCCOnline or through reverse transfer to complete degree

Credits		Course Number
<u>6</u>	<u>Written Communication (must be gtPathways approved) – 6 Credits</u> <b>CO1: English Composition I</b> <b>CO2: English Composition II <u>or</u></b> <b>CO2: English Composition II and a gtPathways- approved CO3 course</b> <b>ENG 201 <u>or</u> HIS 265</b>	<b>ENG 121</b> <b>ENG 122 <u>or</u></b> <b>ENG 122 <u>and</u></b> <b>ENG 201 <u>or</u></b> <b>HIS 265</b>
3	<u>Oral Communication</u> Public Speaking Interpersonal Communication	COM 115 <u>or</u> COM 125
<u>3</u>	<u>Mathematics (must be gtPathways approved) –3 Credits</u> <b>MA1: Math for Liberal Arts (MAT 120) or higher (not MAT 155 or 156)</b>	<b>MAT ____</b>
<u>9</u>	<u>Arts &amp; Humanities (must be gtPathways approved) – 9 Credits</u> <b>Spanish Language III</b> <b>Spanish Language IV <u>and</u> one gtPathways approved course</b> <b>AH1: ART 110,111,112,207; MUS 120,121,122; THE 105,211,212;</b> <b>AH2: HUM 121,122,123; LIT 115,201,202,205,211,212,221,222,225;</b> <b>AH3: PHI 111,112,113,114,214,218;</b> <b>AH4: FRE/GER/ITA/JPN/RUS/SPA 211,212</b>	<b>SPA 211</b> <b>SPA 212 <u>and</u></b> <b>AH ____</b>
<u>6</u>	<u>Social &amp; Behavioral Sciences (must be gtPathways approved) -6 Credits</u> <b>SS1: ECO 201,202; POS 105,111,205,225;</b> <b>SS2: GEO 105,106;</b> <b>SS3: ANT 101,107,111; PSY 101,102,205,217,226,227,235,238,249;</b> <b>SOC 101,102,205,215,216,231,237</b>	<b>SS ____</b>
<u>3</u>	<u>History (must be gtPathways approved) – 3 Credits</u> <b>History of Latin America <u>or</u></b> Another gtPathways focusing on the Spanish-speaking world (non U.S) or another gtPathways non U.S. History Course	<b>HIS 244 <u>or</u></b>
<u>7</u>	<u>Natural &amp; Physical Science (must be gtPathways approved) - (Choose 2) – 7 Credits</u> <b>SC1: AGY 240; AST 101,102; BIO 105,111,112,201,202,204;</b> <b>CHE 101,102,105,111,112; ENV 101; GEY 111,121; MET 150;</b> <b>NRE 251; PHY 105,111,112,211,212; SCI 155,156</b>	SC1 ____ SC1 ____
<u>10</u>	<u>Specialized Course Requirements-10</u> Spanish Language I Spanish Language II	SPA 111** SPA 112**
<u>13</u>	<u>Electives – 19 Credits</u> <b>The elective credits may be chosen from the State Guaranteed General Education Transfer courses listed in this catalog or from any of the following courses:</b> ANT, ART, BIO, CHE, COM, CSC, ECO, ENG (121 or higher), FRE, GEO, GER, GEY, HIS, HUM, ITA, JOU, JPN, LIT, MAT (120 or higher), MUS, PHI, PHY, POS, PSY, RUS, SOC, SPA, THE <b>*Suggested courses: 200-level Spanish courses; courses outside the Spanish department with content related to the Spanish speaking world.</b> <u>A Maximum of 8 credit hours from the following:</u> AAA, ACC 121,122; AGY,ASC 102 BUS 115, 216, 217, 226; CAD 101, 110, 233; CIS 118, 124; CRJ 110, 210; EDU 221; EGG 101,260,261; GIS, HPR 102, 178, 217; HWE 100, 237; MAN 226; MAR 216; NRE, PED (2 credit maximum), PER	
<b>60</b>	<b>Total Required Credits</b>	

\*\*SPA 111 & 112 may be waived, based on student's proficiency level.

## Associate of Science

Credits		Course Number
<u>6</u>	<u>Written Communication (must be qtPathways approved) – 6 Credits</u> <b>CO1: English Composition I</b> <b>CO2: English Composition II</b>	<b>ENG 121</b> <b>ENG 122</b>
<u>3</u>	<u>Oral Communication – 3 Credits</u> Public Speaking or Interpersonal Communication or Intercultural Communication	COM 115 COM 125 COM 220
<u>3</u>	<u>Mathematics (must be qtPathways approved)– 3 Credits</u> <b>MA1: College Algebra or College Trigonometry or Pre-Calculus or Calculus I or higher MA1 course</b>	<b>MAT _____</b>
<u>6</u>	<u>Arts &amp; Humanities (must be qtPathways approved)(Choose from 2 different areas) – 6 Credits</u> <b>AH1: ART 110,111,112,207; MUS 120,121,122; THE 105,211,212;</b> <b>AH2: HUM 121,122,123; LIT 115,201,202,205,211,212,221,222,225;</b> <b>AH3: PHI 111,112,113,114,214,218;</b> <b>AH4: FRE/GER/ITA/JPN/RUS/SPA 211,212</b>	<b>AH_ _____</b> <b>AH_ _____</b>
<u>3</u>	<u>History (must be qtPathways approved) – 3 Credits (Choose 1 Course)</u> <b>H11: HIS101,102,111,112,201,202,225,236</b>	<b>HIS _____</b>
<u>6</u>	<u>Social &amp; Behavioral Science (Choose from 2 different areas) – 6 Credits</u> <b>H11: HIS 101,102,111,112,201,202,225,236</b> <b>SS1: ECO 201,202; POS 105,111,205,225;</b> <b>SS2: GEO 105,106;</b> <b>SS3: ANT 101,107,111; PSY 101,102,205,217,226,227,235,238,249;</b> <b>SOC 101,102,205,215,216,231,237</b>	<b>SS_ _____</b>
<u>12</u>	<u>Natural &amp; Physical Science(must be qtPathways approved)(Must take one 2- lab course sequence) – 12 Credits</u> <b>SC1: AGY 240; AST 101,102; BIO 105,111,112,201,202,204;</b> <b>CHE 101,102,105,111,112; ENV 101; GEY 111,121; MET 150;</b> <b>NRE 251; PHY 105,111,112,211,212; SCI 155,156</b>	<b>SC1 101 &amp; 102</b> or <b>SC1 111 &amp; 112</b> <b>SC1 _____</b>
<u>21</u>	<u>Electives - 21 Credits</u> <u>Minimum of 15 hours from the following:</u> <b>AST 101,102; BIO(105or higher) CHE ,ENV 101; GEY, MAT(121 or higher), NRE 251,PHY</b> <u>Maximum of 6 hours from the following:</u> AAA, AGY, ANT, ART,BIO, BUS 115, 216, 217, 226;CIS 118,124; COM, CRJ 110, 220, ECO, EDU 221, ENG (121 or higher) GIS, HIS, HPR102, 178, 217; HUM, HWE 100, 237; ITA, JOU, JPN, LIT, MAN 226, MAR 217, MAT (120 or higher), MUS, NRE, PED (2 max), PER, PHI, PHY POS, PSY, RUS, SOC, SPA, THE	
<b>60</b>	<b>Total Required Credits</b>	

**Associate of Science  
Degree Designation in Psychology**

Credits		Course Number
<u>6</u>	<u>Written Communication (must be gtPathways approved) – 6 Credits</u> <b>CO1: English Composition I</b> <b>CO2: English Composition II <u>or</u></b> <b>CO2: English Composition II and a gtPathways- approved CO3 course</b> <b>ENG 201 <u>or</u> HIS 265</b>	<b>ENG 121</b> <b>ENG 122 <u>or</u></b> <b>ENG 122 <u>and</u></b> <b>ENG 201 <u>or</u></b> <b>HIS 265</b>
<u>3</u>	<u>Oral Communication – 3 Credits</u> Public Speaking <u>or</u> Interpersonal Communication	COM 115 COM 125
<u>4</u>	<u>Mathematics (must be gtPathways approved) – 4 Credits</u> <b>College Algebra</b>	<b>MAT 121</b>
<u>9</u>	<u>Arts &amp; Humanities (must be gtPathways approved) – 9 Credits</u> <b>Introduction to Philosophy</b> <b>Ethics</b> Six additional credits from at least 2 different categories of gtPathways <b>AH1: ART 110,111,112,207; MUS 120,121,122; THE 105,211,212;</b> <b>AH2: HUM 121,122,123; LIT 115,201,202,205,211,212,221,222,225;</b> <b>AH3: PHI 111,112,113,114,214,218;</b> <b>AH4: FRE/GER/ITA/JPN/RUS/SPA 211,212</b>	<b>PHI 111 <u>or</u></b> <b>PHI 112 <u>and</u></b>  <b>AH_ ____</b> <b>AH_ ____</b>
<u>3</u>	<u>History(must be gtPathways approved)(Choose one class) – 3 Credits</u> <b>H11: HIS 101,102,111,112,201,202,225,236</b>	<b>HIS ____</b>
<u>6</u>	<u>Social &amp; Behavioral Science(must be gtPathways approved) – 6 Credits</u> <b>SS1: ECO 201,202; POS 105,111,205,225;</b> <b>SS2: GEO 105,106;</b> <b>SS3: ANT 101,107,111; PSY 101,102,205,217,226,227,235,238,249;</b> <b>SOC 101,102,205,215,216,231,237</b>	<b>SS_ ____</b> <b>SS_ ____</b>
<u>10</u>	<u>Natural &amp; Physical Science(must be gtPathways approved) – 10 Credits</u> General College Biology I General College Chemistry I	<b>BIO 111</b> <b>CHE 111</b>
<u>6</u>	<u>Specialized Course Requirements – 18 Credits</u> <b>General Psychology I</b> <b>General Psychology II</b>	<b>PSY 101</b> <b>PSY 102</b>
<u>13</u>	<u>Electives – 13 Credits</u> <b>The elective credits may be chosen from the State Guaranteed General Education Transfer courses listed in this catalog or from any of the following courses:</b> AAA, ACC 121,122;AGY,ANT,ART,BIO,BUS 115, 216,217,226; CAD 101, 110, 233;CHE,CIS 118,124,COM,CRJ 110,220; ECO,EDU 221,EGG 101,260,261;ENG (120 or higher),FRE,GEO,GER,GEY,GIS,HIS, HPR 102,178,217;HUM,HWE 100, 237,ITA,JOU,JPN, LIT, MAT(120 or higher),MUS,NRE,PED (2 credit maximum),PER,PHI,PHY,PSY,RUS,SCI, SOC,SPA,THE	

**60 Total Required Credits**

Students planning to transfer to University of Colorado Denver should complete both two-semester sequences of BIO 111 & BIO 112 and CHE 111 & CHE 112 at the community college; in addition, electives are restricted to non-Psychology course.

## Associate of General Studies

Credits		Course Number
<b>3</b>	<u>Written Communication – 3 Credits</u> <b>CO1: English Composition I</b>	<b>ENG 121</b>
<b>3</b>	<u>Mathematics – 3 Credits</u> Career Math (107) or higher	MAT ____
<b>3</b>	<u>Arts &amp; Humanities – 3 Credits (Choose 1 Course)</u> <b>AH1: ART 110,111,112,207; MUS 120,121,122; THE 105,211,212;</b> <b>AH2: HUM 121,122,123; LIT 115,201,202,205,211,212,221,222,225;</b> <b>AH3: PHI 111,112,113,114,214,218;</b> <b>AH4: FRE/GER/ITA/JPN/RUS/SPA 211,212</b>	AH_ ____
<b>3</b>	<u>Social &amp; Behavioral Science – 3 Credits (Choose 1 Course)</u> <b>SS1: ECO 201,202; POS 105,111,205,225;</b> <b>SS2: GEO 105,106;</b> <b>SS3: ANT 101,107,111; PSY 101,102,205,217,226,227,235,238,249;</b> <b>SOC 101,102,205,215,216,231,237</b>	SS_ ____
<b>3</b>	<u>Natural &amp; Physical Science – 3 Credits</u> <b>SC1: AGY 240; AST 101,102; BIO 105,111,112,201,202,204;</b> <b>CHE 101,102,105,111,112; ENV 101; GEY 111,121; MET 150;</b> <b>NRE 251; PHY 105,111,112,211,212; SCI 155,156</b>	SC1 ____
<b>15</b>	<u>General Education Elective – 15 Credits</u> Requirement satisfied by any approved General Education elective, selected in consultation with an academic advisor.	
<b>30</b>	<u>Specialized Course Electives – 30 Credits</u> Any approved course approved by an academic advisor. CO state guidelines require that any student who pursues an Associate of General Studies degree “develop in consultation with & with approval of counselors and or faculty advisors, a written statement of objectives & course needed to satisfy those objectives.” Therefore, to enroll in Associate of General Studies degree program, it is necessary for you to meet with a Counselor (where appropriate, refer to faculty advisor)	
<b>60</b>	<b>Total Required Credits</b>	

**\*This degree requires an approved plan of study from the Counseling and Career Planning Office.**

## Marine Science & Oceanography

### Associate of Science Recommended Plan of Study Marine Science & Oceanography

Credits		Course Number
<u>6</u>	<u>Written Communication – 6 Credits</u> <b>CO1:English Composition I</b> <b>CO2: English Composition II</b>	<b>ENG 121</b> <b>ENG 122</b>
<u>3</u>	<u>Oral Communication – 3 Credits</u> Public Speaking	COM 115
<u>4</u>	<u>Mathematics – 4 Credits</u> <b>MA1: College Algebra</b>	<b>MAT 121</b>
<u>9</u>	<u>Arts &amp; Humanities – 9 Credits</u> Ethics or Environmental Ethics Choose 2 additional Courses: <b>AH1: ART 110,111,112,207; MUS 120,121,122; THE 105,211,212;</b> <b>AH2: HUM 121,122,123; LIT 115,201,202,205,211,212,221,222,225;</b> <b>AH3: PHI 111,112,113,114,214,218;</b> <b>AH4: FRE/GER/ITA/JPN/RUS/SPA 211,212</b>	<b>PHI 112, or</b> <b>PHI 218</b> <b>AH_ _____</b> <b>AH_ _____</b>
<u>9</u>	<u>Social/Behavioral Science- 9 Credits</u> <b>HIS 101,102,111,112,201,202,247</b> Choose 2 additional courses: <b>ECO 201,202; GEO 105,106; POS 105,111,205,225; ANT 101,107,111</b> (Recommended: GEO 105, ECO 201, and/or ANT 101)	<b>HIS_____</b>
<u>10</u>	<u>Natural &amp; Physical Sciences – 10 Credits</u> <b>General College Biology I</b> <b>General College Biology II</b>	<b>BIO 111</b> <b>BIO 112</b>
<u>16</u>	<u>Specialized Course Electives 16 Credits</u> General College Ecology <b>General College Chemistry</b> <b>General Oceanography</b> <b>Introduction to Statistics</b>	<b>BIO 222</b> <b>CHE 111</b> <b>NRE 251</b> <b>MAT 135</b>
<u>3</u>	<u>Electives-Select 3 more Credits</u>	
<u>4</u>	<b>Physical Geology w/Lab</b>	<b>GEY 111</b>
<u>5</u>	<b>General College Chemistry II</b>	<b>CHE 112</b>
<u>4</u>	<b>Environmental Science</b>	<b>ENV 101</b>
<u>3</u>	<b>Principles of Microeconomics</b>	<b>ECO 202</b>
<u>1</u>	Scuba Diving	PED 129
<u>1</u>	Open-Water Diver Certification	PED 215
<b>60</b>	<b>Total Required Credits</b>	

**Associate of General Studies  
Marine Science & Oceanography**

Credits		Course Number
<u>3</u>	<u>Written Communication – 3 Credits</u> <b>CO1: English Composition I</b>	<b>ENG 121</b>
<u>3</u>	<u>Oral Communication – 3 Credits</u> Public Speaking	COM 115
<u>7</u>	<u>Mathematics – 7 Credits</u> <b>MA1: College Algebra</b> <b>Introduction to Statistics</b>	<b>MAT 121</b> <b>MAT 135</b>
<u>3</u>	<u>Arts &amp; Humanities – 3 Credits</u> ART 110, 111,112,207; MUS 120,121,122; THE 105,211,212; HUM 121,122,123; LIT 115,201,202, 211,212,222,225; PHI 111,112,113,114,214,218; FRE/GER/ITA/JPN/RUS/SPA 211,212	
<u>3</u>	<u>Social/Behavioral Science – 3 Credits</u> ECO 201,202; GEO 105,106; POS 105,111,205,225; ANT 101,107,111; PSY 101,102,205,217,226,227,235,238,249	
<u>10</u>	<u>Natural &amp; Physical Sciences – 10 Credits</u> <b>General College Biology I</b> <b>General College Biology II</b>	<b>BIO 111</b> <b>BIO 112</b>
	<u>Specialized Course Electives – 31 Credits</u>	
4	General College Ecology	BIO 222
5	<b>General College Chemistry I</b>	<b>CHE 111</b>
5	<b>General College Chemistry II</b>	<b>CHE 112</b>
4	<b>General Oceanography</b>	<b>NRE 251</b>
4	<b>Physical Geology w/Lab</b>	<b>GEY 111</b>
4	<b>Environmental Science</b>	<b>ENV 101</b>
1	Scuba Diving	PED 129
1	Open-Water Diver Certification	PED 215
3	Introduction to Geographic Information Systems	GIS 101
<b>60</b>	<b>Total Required Credits</b>	

## Massage Therapy

### Occupational Certificate Massage Therapy

PROGRAM REQUIREMENTS: COURSE WORK	ASSESSMENT TEST SCORE	ACT SCORE
Reading 090	80	17
English 090	95	18
Math 060	45(Elementary Algebra)	19

Credits		Course Number
	<u>General Education Requirements-10 Credits</u>	
<u>3</u>	<u>Communications – 3 Credits</u> <b>English Composition I, or</b> Career Communications	<b>ENG 121</b> COM 105
<u>4</u>	<u>Natural &amp; Physical Sciences – 4 Credits</u> Basic Anatomy & Physiology OR Anatomy & Physiology for Massage Therapy	BIO 106 <b>OR</b> MST 106
	<u>Specialized Course Requirements-27</u>	
3	Human Nutrition	HWE 100
1	Complementary Healing Methods	HHP 100
1	Herbology I	HHP 111
1	Introduction to Reflexology	HHP 166
1	Aromatherapy	HHP 108
4	Kinesiology	HPR 217
4	Basic Massage Therapy	MST 111
3	Professional Massage	MST 113
3	Clinical Massage	MST 184
3	Pathology for Massage Therapy	MST 216
2	Massage Therapy Business Practices	MST 204
1	Capstone	MST 289
<b>34</b>	<b>Total Required Credits</b>	

## Natural Resources

### Associate of Science Recommended Plan of Study for Natural Resource Management

Credits		Course Number
<b><u>6</u></b>	<b><u>Written Communication – 6 Credits</u></b> <b>English Composition I</b> <b>English Composition II</b>	<b>ENG 121</b> <b>ENG 122</b>
<b><u>3</u></b>	<b><u>Oral Communication – 3 Credits</u></b> Public Speaking	COM 115
<b><u>4</u></b>	<b><u>Mathematics – 4 Credits</u></b> <b>College Algebra OR</b> <b>Calculus I</b>	<b>MAT 121</b> <b>MAT 201</b>
<b><u>9</u></b>	<b><u>Arts &amp; Humanities – 9 Credits</u></b> <b>Introduction to Ethics</b> <b>ART 110, 111,112,207; MUS 120,121,122; THE 105,211,212; HUM</b> <b>121,122,123; LIT 115,201,202, 211,212,222,225; PHI</b> <b>111,112,113,114,214,218; FRE/GER/ITA/JPN/RUS/SPA 211,212</b>	<b>PHI 112</b> _____ _____
<b><u>9</u></b>	<b><u>Social/Behavioral Science – 9 Credits</u></b> <b>History</b> <b>ECO 201,202; GEO 105,106; POS 105,111,205,225; ANT 101,107,111</b>	<b>HIS</b> _____ _____ _____
<b><u>10</u></b>	<b><u>Natural &amp; Physical Sciences – 10 Credits</u></b> <b>General College Biology I</b> <b>General College Biology II</b> <b>General College Chemistry I</b> <b>General College Chemistry II</b>	<b>BIO 111</b> <b>BIO 112</b> <b>CHE 111</b> <b>CHE 112</b>
<b><u>19</u></b>	<b><u>Specialized Course Electives-19</u></b> Introduction to Natural Resource Management <b>Introductory Soil Science</b> General College Ecology Internship or NRE Seminar Natural Resource Policy & Administration Geographic Information Systems	NRE 102 <b>AGY 240</b> BIO 222 BIO 275 NRE 260 GIS 101
<b>60</b>	<b>Total Required Credits</b>	

**Associate of Applied Science  
Natural Resources Ecology & Management**

Credits		Course Number
<b>3</b>	<u>Written Communication – 3 Credits</u> <b>English Composition I</b>	<b>ENG 121</b>
<b>3</b>	<u>Oral Communication – 3 Credits</u> Public Speaking	COM 115
<b>3</b>	<u>Mathematics – 3 Credits</u> <b>College Algebra OR</b> <b>Introduction to Statistics</b>	<b>MAT 121</b> <b>MAT 135</b>
<b>3</b>	<u>Social/Behavioral Science – 3 Credits</u> <b>Principles of Macroeconomics OR</b> <b>Principles of Microeconomics</b>	<b>ECO 201</b> <b>ECO 202</b>
<b>4</b>	<u>Natural &amp; Physical Sciences – 4 Credits</u> <b>Environmental Science</b>	<b>ENV 101</b>
	<u>Specialized Course Requirements – 36 Credits</u>	
<b>5</b>	<b>General College Biology I</b>	<b>BIO 111</b>
<b>5</b>	<b>General College Biology II</b>	<b>BIO 112</b>
<b>4</b>	General College Ecology	BIO 222
<b>4</b>	<b>Physical Geology w/Lab</b>	<b>GEY 111</b>
<b>3</b>	Introduction to Natural Resource Management	NRE 102
<b>3</b>	Natural Resource Interpretation	COM 214
<b>4</b>	<b>Introduction to Soil Science</b>	<b>AGY 240</b>
<b>3</b>	Introduction to GIS	GIS 101
<b>2</b>	Natural Resource Internship	NRE 280
<b>3</b>	<b>Environmental Ethics</b>	<b>PHI 218</b>
<b>10</b>	<u>Electives – 10 Credits</u>	
	Recommended:	
(5)	Outfitting & Guiding	ADG 150
(3)	Wildland Firefighting	FST 152
(4)	Wilderness First Responder	HWE 129
(2)	Field Monitoring	NRE 127
(4)	Range Management & Restoration	NRE 204
	Or Choose from the Following:	
	AAA, ANT, EQM, AST, BIO, BUS, CHE, CIS, COM, CRJ, ECO, EDU, GIS, HPR, HUM, HWE, ITA, JOU, JPN, MAN, MAR, MAT, MUS, NRE, PED(2 max), PER, PHI, PHY, POS, PSY, RUS, SOC, SPA, THE	
<b>62</b>	<b>Total Required Credits</b>	

## Nursing

### ASSOCIATE OF APPLIED SCIENCE NURSING

<u>Credits</u>	<u>General Education Requirements – 18 credits</u>	<u>Course Number</u>
3	<b>English Composition I</b>	<b>ENG 121</b>
4	<b>Human Anatomy and Physiology I</b>	<b>BIO 201</b>
4	<b>Human Anatomy and Physiology II</b>	<b>BIO 202</b>
3	<b>Human Growth and Development</b>	<b>PSY 235</b>
4	<b>Microbiology</b>	<b>BIO 204</b>
 <b><u>Specialized Course Requirements - 62 credits</u></b>  		
8	Fundamentals of Nursing	NUR 109
2	Basic Concepts of Pharmacology	NUR 112
1	Dietary Nutrition	HPR 108
3	Math for Clinical Calculations	MAT 103
9	Medical Surgical Nursing Concepts	NUR 106
7	Maternal – Child Nursing	NUR 150
4	Pathophysiology	BIO 216
8	Advanced Concepts of Medical-Surgical Nursing I	NUR 206
4	Psychiatric – Mental Health Nursing	NUR 211
2	Pharmacology II	NUR 212
6	Advanced Concepts of Medical-Surgical Nursing II	NUR 216
5	Transition to Professional Nursing Practice	NUR 230
3	Arts/Humanities or Social/Behavioral Sciences Elective	_____
 <b>80</b>	 <b>Total Required Credits</b>	
 5	 Transition into Practical Nursing	 NUR 169
4	Transition from LPN to ADN (for LPN's only)	NUR 199

**Occupational Certificate  
Certified Nursing Assistant**

Credits		Course Number
	<u>Specialized Course Requirements- 8 Credits</u>	
4	Nurse Aid Health Care Skills	NUA 101
0.5	*Pre-requisite: CPR for Professionals	HPR 102
1	Nurse Assistant Clinical Experience	NUA 170
5	Total Required Credits	

## Outdoor Leadership

### Associate of Applied Science Outdoor Leadership

Credits	<u>General Education Requirements-17 Credits</u>	Course Number
<u>3</u>	<u>Written Communication – 3 Credits</u> <b>English Composition I</b>	<b>ENG 121</b>
<u>3</u>	<u>Oral Communication – 3 Credits</u> Public Speaking	COM 115
<u>3</u>	<u>Mathematics – 3 Credits</u> <b>Math for Liberal Arts (120)</b> or higher	<b>MAT</b> _____
<u>8</u>	<u>Natural &amp; Physical Sciences – 8 Credits</u> <b>Environmental Science</b> <b>General College Ecology</b>	<b>ENV 101</b> <b>BIO 222</b>
	<u>Specialized Course Requirements – 42 Credits</u>	
3	Introduction to Natural Resource Management	NRE 102
3	Natural Resource Interpretation	COM 214
<b>4</b>	<b>Physical Geology w/Lab</b>	<b>GEY 111</b>
2	Natural Resource Internship	NRE 280
<b>3</b>	<b>Environmental Issues &amp; Ethics</b>	<b>PHI 218</b>
3	Principles of Outdoor Recreation	PER 252
2	Outdoor Leadership	PER 253
3	Outdoor Recreation Programming	PER 200
4	Wilderness First Responder	HWE 129
1	Risk Management for Outdoor Education	ADG 225
3	Wildland Firefighting	FST 152
3	Outdoor Expedition	PED 155
2	Challenge Course Facilitation	OUT 216
3	Wilderness Survival Skills	PED 165
3	Choose 3 Courses from Physical Education & Recreation, and/or Physical Education	PED/PER_____
<u>6</u>	<u>Electives – 6 Credits</u> AAA, AGY,ADG,ANT,AST,BIO,CHE,CIS,ECO, ENG,EQM, EQT,GEO,GEY,GIS,HIS,HTM,MAT,NRE,OUT,PER, PED (no more than 3 credits), <b>POS 111</b> , PRA 180	
<b>60</b>	<b>Total Required Credits</b>	

## Park Ranger

### Associate of Applied Science Park Ranger

Credits	<u>General Education Requirements- 17 Credits</u>	Course Number
<u>3</u>	<u>Written Communication - 3 Credits</u> <b>English Composition I</b>	<b>ENG 121</b>
<u>3</u>	<u>Oral Communication -3 Credits</u> Public Speaking	COM 115
<u>3</u>	<u>Mathematics -3 Credits</u> <b>Math for Liberal Arts (120)</b> or higher	MAT_____
<u>8</u>	<u>Natural &amp; Physical Science – 8 Credits</u> <b>Environmental Science</b> General College Ecology	<b>ENV 101</b> BIO 222
<u>14</u>	<u>Specialized Course Requirements – 14 Credits</u> Introduction to Natural Resource Management Natural Resource Interpretation Principles of Outdoor Leadership Outdoor Leadership Outdoor Recreation Programming	NRE 102 COM 214 PER 252 PER 253 PER 200
	<u>Related Course Requirements – 20 Credits</u>	
6	Seasonal Park Ranger Academy I	PRA 100
6	Seasonal Park Ranger Academy II	PRA 101
3	Arrest Control Techniques	LEA 106
1	Ranger Driving Tactics	PRA 107
3	Firearms	LEA 108
1	Physical Conditioning	PED 112
	<u>Electives – 9 Credits</u>	
<b>9</b>	Recommended: Choose 9 Credits	
3	Wildland Firefighting	FST 152
4	Wilderness First Responder	HWE 129
3	Wilderness Survival Skills	PED 165
1	Orienteering	OUT 120
	Or Choose from the Following: AAA, AGY,ADG,ANT,AST,BIO,CHE,CIS,ECO, ENG,EQM, EQT,GEO,GEY,GIS,HIS,HTM,MAT,NRE,OUT,PER, PED (no more than 3 credits), <b>POS 111</b> , PRA 180	
<b>60</b>	<b>Total Required Credits</b>	

**Occupational Certificate  
Seasonal Park Ranger Academy & Skills**

Credits	<u>Specialized Course Requirements- 20 Credits</u>	Course Number
6	Seasonal Park Ranger Academy I	PRA 100
6	Seasonal Park Ranger Academy II	PRA 101
3	Arrest Control Techniques	LEA 106
1	Ranger Driving Tactics	PRA 107
3	Firearms	LEA 108
1	Physical Conditioning	PED 112
<b>20</b>	<b>Total Required Credits</b>	

## **COURSE DESCRIPTIONS**

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Courses offered at Colorado Northwestern Community College are grouped into fields of study. The descriptions indicate the content of the courses and specify the prerequisites for each course.

This catalog is only a general description of courses and programs and is subject to modification. The listing of a course or program in the official catalog does not constitute a guarantee or contract that the particular course or program will be offered during a given year or semester. This listing represents a sampling of courses offered by Colorado Northwestern. Additional courses may also be offered. For an exact schedule of fall, spring, and summer classes, consult the appropriate schedule of classes.

In general, courses numbered 101 to 199 are freshman level and those numbered 200 and above are sophomore level. Courses numbered below 100 are considered developmental courses and are not transferable. See your advisor for further assistance.

The distribution of credit for lecture-laboratory-internship or field experience periods is as follows: 4(2-2-1). The figure outside the parenthesis indicates the number of credits per semester. Inside the parenthesis, the first figure indicates the number of contact hours spent in lectures each week for a semester, the second figure indicates the number of contact hours spent in laboratory each week for a semester, and the third figure indicates the number of contact hours spent in internship or field experiences each week for a semester. Courses will meet the number of required clock hours, but may be concentrated or altered to meet needs when published in the schedule.

**Attention: Course numbers and descriptions are subject to change (see below).**

Effective Fall Semester 2003, new State guaranteed transfer courses and a common course numbering system have been implemented to enhance the overall transfer of credits between Colorado community colleges and four-year institutions. As these initiatives evolve, some courses may change and/or program requirements may be altered. Consult your advisor periodically to review potential changes. Further information can be found at the Colorado Community Colleges System Website: [www.cccs.edu](http://www.cccs.edu).

“The Colorado Community College Common Courses (Common Course Numbering System—CCCNS) has been developed to facilitate ease of transfer for community college students from one community college to the other and from the community college to the four-year educational institutions, to improve program planning, to increase communication among all of the colleges, and to facilitate articulation arrangements from high schools to the community colleges. The scope includes all courses offered for credit at the community college, and the structure is content specific rather than program, department, or discipline specific. The goal of the CCCNS is to establish consistency in course offering across the system.”

### **ACADEMIC ACHIEVEMENT**

#### **AAA 090 ACADEMIC ACHIEVEMENT STRATEGIES/3(3-0-0)**

Develops personalized approaches to learn and succeed for easier transition into college. Topics include goal-setting, time management, textbook reading strategies, note-taking, test-taking, listening techniques, concentration and memory devices, and critical thinking for student success.

#### **AAA 101 COLLEGE 101: THE STUDENT EXPERIENCE/1(1-0-0)**

Introduces students to college culture and prepares them for the challenges they will face in higher education. Through a series of interactive seminars, students discover learning in a multicultural environment and use college and community resources to attain education and career goals.

**AAA 109 ADVANCED ACADEMIC ACHIEVEMENT/3(3-0-0)**

Examines theories and practices associated with successful learning to enhance college success. Areas of study include education and career planning, effective communication, personal management, critical and creative thinking, development of community and awareness of diversity, leadership, and techniques for successful academic performance. Recommended for new and returning students.

**AAA 175-SPECIAL TOPICS**

Exploration of current topics, issues and activities related to one or more aspects of the named discipline. To include computers/library and/or Learning Community Seminar I.

**AAA 176-SPECIAL TOPICS –**

Topics to include studying and test preparation and/or Learning Community Seminar II.

**AAA 177-SPECIAL TOPICS –**

Topics to include goal setting and time management.

**AAA 275-SPECIAL TOPICS**

Topics to include Learning Community Seminar III.

**AAA 276-SPECIAL TOPICS**

Topics to include Learning Community Seminar IV.

**ACCOUNTING****ACC 115 PAYROLL ACCOUNTING/3(2-2-0)**

Prerequisite: ACC 121.

Studies federal and state employment laws and their effects on personnel and payroll records. The course is non-technical and is intended to give students a practical working knowledge of the current payroll laws and actual experience in applying regulations. Students are exposed to computerized payroll procedures.

**ACC 121 ACCOUNTING PRINCIPLES I/4 (3-2-0)**

Introduces the study of accounting principles for understanding of the theory and logic that underlie procedures and practices. Major topics include the accounting cycle for service and merchandising companies, special journals and subsidiary ledgers, internal control principles and practices, notes and interest, inventory systems and costing, plant assets and intangible

asset accounting, and depreciation methods and practices.

**ACC 122 ACCOUNTING PRINCIPLES II/4 (3-2-0)** Prerequisite: ACC 121.

Continues the study of accounting principles as they apply to partnerships and corporations. Major topics include stocks and bonds, investments, cash flow statements, financial analysis, budgeting, and cost and managerial accounting.

**ACC 125 COMPUTERIZED ACCOUNTING/3 (1-4-0)**

Introduces the capabilities of computer applications in accounting. Includes solving accounting problems of a financial nature and hardware and software controls.

**ACC 131 INCOME TAX/3(3-0-0)**

Strongly Recommended: ACC 121

This course is the study of basic concepts of federal income taxation, including gross income, deductions, accounting periods and methods, and property transactions, with emphasis on taxation of individuals and sole proprietorships.

**ACC 135 SPREADSHEET APPLICATIONS FOR ACCOUNTING/3(3-0-0)**

Prerequisites: ACC 122 or spreadsheet experience.

This course introduces spreadsheets as an accounting tool. Using an accounting perspective, the student applies fundamental spreadsheet concepts. The spreadsheet is used as a problem solving and decision making tool.

**ACC 211 INTERMEDIATE ACCOUNTING I /4(4-0-0)** Prerequisite: ACC 122.

Focuses on comprehensive analysis of generally accepted accounting principles (GAAP), accounting theory, concepts and financial reporting principles for public corporations. It is the first of a two-course sequence in financial accounting and is designed primarily for accounting and finance majors. Focuses on the preparation and analysis of business information relevant and useful to external users of financial reports. Explores the theories, principles and practices surveyed in Accounting Principles and critically examines `real-world` financial analysis and reporting issues.

**ACC 212 INTERMEDIATE ACCOUNTING II/4 (4-0-0)**

Prerequisite: ACC 211

Focuses on the theoretical and practical aspects of accounting for long-term liabilities, stockholders' equity, investments, pensions and leases. Includes income tax allocation, financial statement analysis, cash flow statements and accounting methods changes.

**ACC 215 ACCOUNTING INFORMATION SYSTEMS & eBUSINESS/3(3-0-0)**

Studies the principles, concepts and tools used in the analysis, design, implementation and integration of accounting systems, internal controls systems and accounting procedures. Key elements of system analysis, business systems design, accounting software selection, and the acquisition and implementation of systems are studied. Techniques and systems for electronic control systems, electronic data interchange, electronic funds transfer and web commerce are explored.

**ACC 216 GOVERNMENT & NOT-FOR-PROFIT ACCOUNTING/3(3-0-0)**

Addresses concepts of budgetary control as a matter of law and public administration theory. Accounting principles and procedures necessary to implement budgetary controls for governmental units and other not-for-profit institutions and organizations are presented.

**ACC 226 COST ACCOUNTING I/3(3-0-0)**

Prerequisite: ACC 122 or equivalent with minimum grade of C.

Studies cost accumulation methods and reports. Focuses on the concepts and procedures of job order, process, standard, and direct cost systems, budgeting, planning, and control of costs.

**ACC 227 COST ACCOUNTING II/3 (3-0-0)**

Prerequisite: ACC 226

Continues ACC 226 and focuses on the decision making aspects of managerial accounting using electronic spreadsheet applications for assigned problems. Topics include product pricing strategy, capital budgeting, statement of cash flow, and application of linear programming.

**ACC 287 COOPERATIVE EDUCATION/3 (3-0-0)**

Prerequisite: Instructor permission.

Provides an opportunity to gain practical experience in applying occupational skills and/or to develop specific skills in a practical work

setting. The instructor works with the student to select an appropriate work site, establish learning objectives, and coordinate learning activities with the employer or work site supervisor. For Accounting majors only.

**ADVENTURE GUIDE****ADG 150 OUTFITTING AND GENERAL GUIDING/5(5-0-0)**

Prerequisite: ASC 243 or Program Director approval

Teaches the fundamental skills needed to plan and implement guided backcountry trips using horses and mules.

**ADG 225 RISK MANAGEMENT FOR THE OUTDOOR PROFESSIONAL/1 (1-0-0)**

Introduces risk management in the outdoor environment. Students will gain a better understanding of the inherent risks associated with various outdoor activities. They will learn how to analyze and minimize those risks, how to establish emergency protocols to react to those risks, and how to take the proper steps to resolve the consequences from those risks. After learning to identify, assess and reduce the risk, students will write a risk management plan specific to their area of interest. This course will cover outdoor leadership skills and delve into backcountry emergency situations and scenarios.

**AGRICULTURE CROPS & SOILS**

*Statewide Guaranteed Transfer courses will be designated with (SC1)*

**AGY 240 INTRODUCTORY SOIL SCIENCE/4(3-2-0)**

Prerequisite: CHE 101 or 111.

Focuses on formation, physical properties, chemical properties and management of soils emphasizing conditions that affect plant growth. (SC1)

## **AGRICULTURAL PRODUCTION**

### **AGP 160 RANCH HORSEMANSHIP**

**SKILLS/2(2-0-0)** Prerequisites: ASC 243 or Program Director Approval

Offers an introduction to the skills utilized in ranching operations where horses are involved in moving, sorting, and restraining cattle. Emphasis is placed on safety, proper techniques and in developing proficiency in equipment selection and care, basic horsemanship, riding, and roping.

## **AVIATION MAINTENANCE TECHNOLOGY**

### **AMT 101 A&P PREPARATION/4(3-2-0)**

Covers basic subjects, such as mathematics, physics and aircraft drawings and provides a foundation for further studies in the A&P program.

### **AMT 102 BASIC ELECTRICS/4(3-2-0)**

Covers basic ac and dc electric theory as applied to aircraft systems.

### **AMT 103 WEIGHT & BALANCE AND GROUND HANDLING/2(1-2-0)**

Emphasizes aircraft weight and balance theory and the performance of weight and balance calculations. Also covers the requirements for ground handling, servicing, taxiing and towing aircraft.

### **AMT 104 REGULATIONS & PUBLICATIONS/3(2-2-0)**

Focuses on the Federal Aviation Administration and manufacturer's publications pertaining to aircraft operation and maintenance.

### **AMT 105 MATERIALS AND PROCESSES/6(5-2-0)**

Focuses on aircraft structures, materials, and hardware, the use of precision measuring tools, and methods of non-destructive testing.

### **AMT 106 CORROSION CONTROL AND FLUID LINES/2(1-2-0)**

Emphasizes the causes of corrosion and methods to prevent and treat corrosion in aircraft structures. Covers construction of rigid and flexible aircraft fluid lines.

### **AMT 111 WOOD, FABRIC, AND FINISHES/2(1-2-0)**

Focuses on application, maintenance and repair of aircraft structural wood and fabric covering materials, and the application and maintenance of protective finishes.

### **AMT 112 SHEET METAL/6(3-6-0)**

Covers characteristics of various aluminum alloys, the procedures and precautions used when working with them, the selection of appropriate hardware, and the principles of making repairs to aluminum structures.

### **AMT 113 AIRCRAFT WELDING/1(5-1-0)**

Focuses on varieties and methods of working with aircraft steel and the principles of soldering, silver soldering, gas arc and heliarc welding. Emphasizes gas welding of thin wall steel tubing.

### **AMT 114 ASSEMBLY, RIGGING AND INSPECTION/3(1.5-3-0)**

Focuses on materials and principles of aircraft control rigging and the replacement of structural aircraft components. Performs 100-hour and special inspections.

### **AMT 115 COMPOSITE CONSTRUCTION/2(1-2-0)**

Introduces composite materials as applied to aircraft construction and the maintenance and repair of items made of these materials.

### **AMT 116 AIRCRAFT ADVANCED COMPOSITE CONSTRUCTION AND REPAIR II/3(2-2-0)**

Prerequisite: AMT 115.

Continues AMT 115. Wet and prepreg repairs to monolithic and sandwich panel structures will be emphasized. Repairs will involve room temperature, oven, and hot bond cures. Repair of bonded metal structures will also be covered along with damage evaluation and safety issues.

### **AMT 117 AIRCRAFT SHEET METAL II/3(2-2-0)**

Prerequisite: AMT 112.

Continues AMT 112. Skills developed in AMT 112 will be used in the repair of light and heavy sheet metal structures.

### **AMT 121 HYDRAULIC SYSTEMS/3(1.5-3-0)**

Focuses on hydraulic principles, hydraulic fluids, system components, and operation of hydraulic and pneumatic systems.

**AMT 122 AIRCRAFT ELECTRICS/4(2-4-0)**

Prerequisite: AMT 102.

Focuses on the operation, troubleshooting and repair of aircraft electrical systems with emphasis on alternators, motors, and lighting systems and the wiring, control and circuit protection devices for each.

**AMT 123 INSTRUMENT AND WARNING SYSTEMS/2(1.5-1-0)**

Emphasizes aircraft flight instrument theory and operation and the inspection, maintenance and installation requirements for these systems.

**AMT 124 FUEL SYSTEMS/2(1-2-0)**

Focuses on the operation of aircraft fuel systems and the procedures utilized in inspecting, troubleshooting, and maintaining these systems.

**AMT 125 MISCELLANEOUS SYSTEMS/3(2-2-0)**

Studies airframe systems including communication, navigation, fire warning and extinguishing, and cabin atmospheric control systems.

**AMT 126 AVIATION ELECTRONICS/3(2-2-0)**

Prerequisite: AMT 102 or 122.

Studies alternating current, capacitive and inductive circuits with emphasis on solid state and optical electric devices.

**AMT 127 LANDING GEAR SYSTEMS/3(1.5-3-0)**

Focuses on operation, troubleshooting, and repair of aircraft landing gear systems.

**AMT 140 AIRCRAFT SYSTEMS PILOTS – AIRFRAME 3(3-0-0) See AVT 140**

Covers the study of basic mechanical systems and structural components of aircraft to supplement instruction received in flight training.

**AMT 141 AIRCRAFT SYSTEMS PILOTS – POWERPLANT/3(3-0-0) See AVT 141**

Focuses on operation, troubleshooting, and repair of aircraft landing gear systems.

**AMT 201 RECIPROCATING ENGINE THEORY/4(3-2-0)**

Emphasizes the theory, operating principles, and construction features of aircraft reciprocating engines.

**AMT 202 RECIPROCATING FUEL METERING AND INDUCTION SYSTEMS/3(2-1-0)**

Reviews aircraft fuel delivery system components and operating principles. Studies carburetor and fuel injection system controls that meter fuel to the engine.

**AMT 203 RECIPROCATING IGNITION SYSTEMS/2(1-2-0)**

Introduces aircraft piston engine ignition systems, including classifications, components, theory, starting systems, maintenance, servicing, and repair.

**AMT 205 RECIPROCATING ENGINE MAINTENANCE/4(1-6-0)**

Prerequisite: AMT 201.

Focuses on engine maintenance and overhaul procedures and includes an actual engine overhaul.

**AMT 206 RECIPROCATING PROPELLER SYSTEMS/2(1-2-0)**

Introduces the study of aircraft propellers including fixed pitch, constant speed, feathering, reversing, and de-icing systems.

**AMT 207 ENGINE ELECTRICS AND INSTRUMENT SYSTEMS/2(1-2-0)**

Studies electric systems that apply to engine operation with emphasis on starting and generating systems. Also includes the pressure, temperature, position and speed indicating instruments that pertain to engine operation.

**AMT 211 TURBINE ENGINE THEORY/4(3-2-0)**

Focuses on the theory, operating principles, and construction features of turbine aircraft engines.

**AMT 212 TURBINE FUEL SYSTEMS/2(1-2-0)**

Studies turbine engine fuel delivery, fuel control operation, fuel control design, and maintenance procedures.

**AMT 213 MISCELLANEOUS TURBINE SYSTEMS/3(1.5-3-0)**

Studies turbine engine starting, ignition, instrument and fire protection systems and the maintenance of these systems.

**AMT 215 TURBINE ENGINE MAINTENANCE/4(1-6-0) Prerequisite: AMT 211.**

Focuses on maintenance and inspection practices pertaining to turbine aircraft engines.

**AMT 216 TURBINE PROPELLERS/1(.5-1-0)**

Covers turbo-prop system components, operations, and maintenance, including operation of a feathering and reversing turbo-prop.

**AMT 218 TROUBLESHOOTING/3(1.5-3-0)**

Introduces students to principles of troubleshooting and a method of analyzing problems assisting students to better understand aircraft systems and extend the principles to troubleshooting of complex aircraft systems.

**AMT 251 HELICOPTER MAINTENANCE I/3 (2-2-0)**

Introduces students to safe practices, basic helicopter airframe maintenance practices, and 100-hour inspection procedures. This is an elective course for the student pursuing a career in helicopter maintenance.

**AMT 252 HELICOPTER MAINTENANCE**

**I/3(2-2-0)** Prerequisite: AMT 251 or consent of instructor.

Provides instruction on helicopter powerplant systems and continued application of the skills and concepts acquired in AMT 251 with hands-on work emphasis, including rotor blade balancing, tracking, flight control rigging. This is an elective course for the student pursuing a career in helicopter maintenance.

**ANTHROPOLOGY**

*Statewide Guaranteed Transfer courses will be designated with (SS3)*

**ANT 101 CULTURAL ANTHROPOLOGY/3 (3-0-0)**

Studies human cultural patterns and learned behavior. Includes linguistics, social and political organization, religion, culture and personality, culture change, and applied anthropology.(SS3)

**ANT 107 INTRODUCTION TO ARCHAEOLOGY/3(3-0-0)**

Introduces the science of recovering the human prehistoric and historic past through excavation, analysis, and interpretation of material remains. Includes a survey of the archaeology of different areas of the Old and New Worlds. Also includes the works of selected archaeologists and discussions of major archaeological theories.(SS3)

**ANT 111 PHYSICAL ANTHROPOLOGY/3 (3-0-0)**

Studies human biology and its effects on behavior. Includes principles of genetics and evolution, vertebrates and primates, human origins, human variation, and ecology.(SS3)

**ANT 215 INDIANS OF NORTH AMERICA/3 (3-0-0)**

Studies the Indians of North America from the origins of native peoples in the New World, through the development of geographic culture areas, to European contact and subsequent contemporary Native American issues.(SS3)

**ANT 275 SPECIAL TOPICS/0.5-6**

Provides opportunity for off-campus field experience or study of a special topic in anthropology. Field study may occur at archaeological sites, museums, host educational institutions, within ethnographic situations, or other anthropologically appropriate places. Study of a special topic may include that derived from physical anthropology, cultural anthropology, archaeology, or other anthropological discipline.

**AQUACULTURE****AQT 101 INTRODUCTION TO AQUACULTURE/3(3-0-0)**

Introduces students to today's Aquaculture Industry. Emphasizes terminology, historical background and basic principles and practices. Commonly cultured fish species and other products of aqua cultural significance are covered. Local, state and federal policies governing aquaculture operations as well as career opportunities are discussed. Students study factors to consider before starting a business.

**ART**

*Statewide Guaranteed Transfer courses will be designated with (AH1)*

**ART 110 ART APPRECIATION/3(3-0-0)**

Introduces the cultural significance of the visual arts, including media, processes, techniques, traditions, and terminology. (AH1)

**ART 111 ART HISTORY I/3(3-0-0)**

Provides the knowledge base to understand the visual arts, especially as related to Western culture. Surveys the visual arts from the Ancient through the Medieval periods.(AH1)

**ART 112 ART HISTORY II/3(3-0-0)**

Provides the knowledge base to understand the visual arts, especially as related to Western culture. Surveys the visual arts from the Renaissance through the Modern periods. (AH1)

**ART 115 STAINED GLASS I/3(3-0-0)**

Develops a basic understanding and approach to stained glass. Students gain an understanding of and appreciation for the properties of glass and the nature of finished stained glass construction.

**ART 116 STAINED GLASSII/3(3-0-0)**

Prerequisite: ART 115.

A continuation of Stained Glass I, students advance to a clearer but still basic understanding and approach to stained glass. Students gain a greater understanding of and appreciation for the properties of glass and the nature of finished stained glass construction.

**ART 121 DRAWING I/3(3-0-0)**

Investigates the various approaches and media that students need to develop drawing skills and visual perception.

**ART 124 WATERCOLOR I/3(3-0-0)**

Provides an introduction to the basic techniques and unique aspects of materials involved in the use of either transparent or opaque water media or both. Color theory is included.

**ART 128 FIGURE DRAWING I/3(3-0-0)**

Introduces the basic techniques of drawing the human figure.

**ART 131 VISUAL CONCEPTS 2-D DESIGN/3(3-0-0)**

Examines the basic elements of design, visual perception, and artistic form and composition as they relate to two-dimensional media.

**ART 151 PAINTING I/3(3-0-0)**

Explores basic techniques, materials, and concepts used in opaque painting processes in oil or acrylic painting to depict form and space on a two-dimensional surface.

**ART 161 CERAMICS I/3(3-0-0)**

Introduces traditional and contemporary ceramic forms and processes including hand building and throwing on the potter's wheel.

**ART 207 ART HISTORY 1900 TO PRESENT/3(3-0-0)**

Provides students with the knowledge base to understand the visual arts as related to Modern and Contemporary visual art. Surveys world art of the twentieth century, including Modernism to Post-Modernism. (AH1)

**ART 261 CERAMICS II/3(3-0-0)**

Prerequisite: ART 161.

A continuation of ART 161, this course emphasizes skill, technique and form.

**ART 251 PAINTING II/3(3-0-0)**

Prerequisite: ART 151 or instructor's permission.

This course further explores techniques, materials, and concepts used in opaque painting processes in oil or acrylic painting, with emphasis on composition and content development.

**ANIMAL SCIENCE****ASC 102 INTRODUCTION TO EQUINE SCIENCE/4 (3-2-0)**

Covers the basics of the equine industry, breeds, selection, form to function, care and management, soundness, health, reproduction, feeding, facilities, physiology, production systems and management systems

**ASC 143 ELEMENTARY WESTERN EQUITATION/2(2-0-0)**

Provides the student with an introduction to basic safe handling and riding of the western horse.

**ASC 145 ELEMENTARY ENGLISH EQUITATION/2(2-0-0)**

Provides the student with an introduction to basic safe handling and riding of the English horse.

**ASC 216 INTERMEDIATE ENGLISH EQUITATION/2(2-0-0)**

Provides the advanced English rider with an introduction to jumping.

**ASC 243 INTERMEDIATE WESTERN EQUITATION/2(2-0-0)**

Prerequisite: ASC 143  
Provides the student basic to intermediate horsemanship and maneuvers, improved body position, and advanced control.

**ASC 245 EQUINE EVALUATION/3(3-0-0)**

Focuses on a system of development for evaluating a horse's conformation and its relationship to performance. Covers various aspects of evaluating horses while enhancing the student's deductive reasoning and public speaking skills.

**AMERICAN SIGN LANGUAGE****ASL 101 BASIC SIGN LANGUAGE I/3(3-0-0)**

Provides students with the basic knowledge of communicating with the deaf community. Students will develop basic vocabulary and conversational skills and will be introduced to aspects of the deaf culture and community.

**ASL 102 BASIC SIGN LANGUAGE II/3(3-0-0)**

Prerequisite: ASL 101 or instructor's permission. Continues the sequence for students who want to learn basic conversational patterns to communicate with the Deaf community. The material covers basic vocabulary and conversational skills, and aspects of the Deaf culture and community.

**ASL 121 AMERICAN SIGN LANGUAGE I/5 (5-0-0)**

Exposes the student to American Sign Language. Readiness activities are conducted focusing on visual/receptive skills and basic communication. Utilizes the direct experience method. Students must complete this course with a `B` or higher or pass the ASL proficiency test with a score of at least 80% or better prior to registering for ASL 122 if planning to enroll in the Interpreter Preparation Program.

**ASL 122 AMERICAN SIGN LANGUAGE II/5 (5-0-0)** Prerequisite: Successful completion of ASL 121 or passing the ASL 121 proficiency exam.

Develops a basic syntactic knowledge of American Sign Language (ASL), basic vocabulary and basic conversational skills. Incorporates vital aspects of deaf culture and community. The direct experience method is used to enhance the learning process. Students must complete this course with a `B` or higher or pass the ASL 121 proficiency test at 80% or better prior to acceptance into the Interpreting and Transliterating Preparation program.

**ASTRONOMY**

*Statewide Guaranteed Transfer courses will be designated with (SC1)*

**AST 101 ASTRONOMY I/LAB/4(3-2-0)**

Focuses on the history of astronomy, the tools of the astronomer and the contents of the solar system including the planets, moons, asteroids, comets, and meteoroids. Incorporates laboratory experience.(SC1)

**AST 102 ASTRONOMY II/LAB/4(3-2-0)**

Emphasizes the structure and life cycle of the stars, the sun, galaxies, and the universe as a whole, including cosmology and relativity. Incorporates laboratory experience.(SC1)

**AUTOMOTIVE****ASE 102 INTRO TO THE AUTOMOTIVE SHOP/2(2-0-0)**

Prepares the incoming automotive student to work in the shop safely and gain familiarity with the shop and common equipment.

**ASE 103 AUTO MAINTENANCE I/2(2-0-0)**

This course addresses three primary areas of concern for the average car owner. The first is the basics of how various systems on the automobile work. The second is the maintenance required for the vehicle. The third is the financial concerns of owning the vehicle.

**ASE 110 BRAKES I/3(1-4-0)**

Covers basic operation of automotive braking systems. Includes operation, diagnosis, and basic repair of disc brakes, drum brakes, and basic hydraulic systems.

**ASE 120 BASIC AUTO ELECTRICITY/2(1-2-0)**

Introduces vehicle electricity and includes basic electrical theory, circuit designs, and wiring methods. Focuses on multi-meter usage and wiring diagrams.

**ASE 123 BATTERY, STARTING, & CHARGING/2(1-2-0)**

Covers the operation, testing, and servicing of vehicle battery, starting, and charging systems. Includes voltage and amperage testing of starter and generator, load testing and maintenance of a battery, and starter and generator overhaul.

**ASE 130 GENERAL ENGINE DIAGNOSIS/2 (1-2-0)**

Focuses on lecture and related laboratory experiences in the diagnosis and necessary corrective actions of automotive engine performance factors.

**ASE 132 IGNITION SYS DIAGNOSIS & REPAIR/2(1-2-0)**

Focuses on lecture and related laboratory experiences in the diagnosis, service, adjustments and repair of various automotive ignition systems.

**ASE 134 AUTOMOTIVE EMISSIONS/2(1-2-0)**

Focuses on lecture and laboratory experiences in the diagnosis and repair of automotive emission control systems.

**ASE 140 STEERING & SUSPENSION I/3 (1-4-0)**

Focuses on lecture and related experiences in the diagnosis and service of suspensions and steering systems and their components.

**ASE 150 U-JOINT & AXLE SHAFT SERVICE/2(1-2-0)**

Studies the operating principles and repair procedures relating to axle-shaft and universal joints.

**ASE 151 MANUAL TRANSMISSION/TRANSAXLES & CLUTCHES/2(1-2-0)**

Focuses on lecture and related laboratory experiences in the diagnosis and repair of automotive manual transmissions, transaxles and clutches and related components.

**ASE 152 DIFFERENTIALS & 4WD/AWD REPAIR/2(1-2-0)**

Focuses on lecture and related laboratory experiences in the diagnosis and repair of automotive differentials, four wheel and all wheel drive units.

**ASE 160 ENGINE REMOVAL & INSTALLATION/1(.5-1-0)**

Focuses on lecture and laboratory experiences in the removal and installation procedures of the automotive engine from and into front wheel and rear wheel drive vehicles.

**ASE 161 ENGINE DISASSEMBLY DIAGNOSIS & ASSEMBLY/5(1-8-0)**

Focuses on lecture and laboratory experiences in the disassembly, diagnosis and reassembly of the automotive engine. Topics include the diagnostic and repair procedures for the engine block and head assemblies.

**ASE 210 BRAKES II/3(1-4-0)**

Covers the operation and theory of the modern automotive braking systems. Includes operation, diagnosis, service, and repair of the anti-lock braking systems, power assist units and machine operations of today's automobile.

**ASE 221 AUTO/DIESEL BODY ELECTRICAL/4(2-4-0)**

Provides a comprehensive study of the theory, operation, diagnosis, and repair of vehicle accessories.

**ASE 231 AUTO/DIESEL COMPUTERS/2(1-2-0)**

Focuses on lecture and laboratory experiences in the inspection and testing of typical computerized engine control systems.

**ASE 233 FUEL INJECTION AND EXHAUST/4(2-4-0)**

Focuses on lecture and related laboratory experiences in the diagnosis and repair of electronic fuel injection systems and modern exhaust systems.

**ASE 235 DRIVEABILITY DIAGNOSIS/1(.5-1-0)**

Emphasizes lecture and related laboratory experience in diagnostic techniques and the use of diagnostic scan tools, oscilloscopes, lab scopes, multi-meters and gas analyzers. Students diagnose live vehicle driveability problems.

**ASE 240 SUSPENSION AND STEERING II/3 (2-2-0)**

Emphasizes lecture and related experiences in the diagnosis and service of electronic suspensions and steering systems and their components.

**ASE 250 AUTOMATIC TRANSMISSION/TRANSAXLE SERVICE/1 (.5-1-0)**

Focuses on practical methods of maintaining, servicing, and performing minor adjustments on an automatic transmission and transaxle.

**ASE 251 AUTOMATIC TRANSMISSION/  
TRANSAXLE DIAGNOSIS & ASSEMBLIES/5  
(2-6-0)**

Covers diagnosis, principles of hydraulics, principles of electronic components, power flow, theory of operation, removal of transmission/transaxle, tear down, replacement of components, measurement and subsequent adjustment of components and replacement of transmission/transaxle.

**ASTRONOMY**

*Statewide Guaranteed Transfer courses will be designated with (SC1)*

**AST 101 ASTRONOMY I/4(3-2-0)**

Focuses on the history of astronomy, the tools of the astronomer and the contents of the solar system including the planets, moons, asteroids, comets, and meteoroids. Incorporates laboratory experience. (SC1)

**AST 102 ASTRONOMY II/4(3-2-0)**

Emphasizes the structure and life cycle of the stars, the sun, galaxies, and the universe as a whole, including cosmology and relativity. Incorporates laboratory experience. (SC1)

**AVIATION TECHNOLOGY**

**AVT 101 PRIVATE PILOT GROUND  
SCHOOL/4(4-0-0)**

Prepares student for the Private Pilot Airplane, Single Engine, Land FAA Knowledge Exam.

**AVT 102 PRIVATE PILOT FLIGHT/4(4-0-0)**

Prerequisite: AVT 101 or equivalent instruction and Instructor permission.  
Focuses on flight training in preparation for the Private Pilot Airplane, Single-Engine, Land FAA Practical Test, and completing requirements for the Private Pilot Certificate.

**AVT 105 AVIATION METEOROLOGY/4(4-0-0)**

Focuses on recognition, interpretation and evaluation of atmospheric weather as it relates to and affects aviation.

**AVT 106 PINCH-HITTER PILOT/1(1-0-0)**

Prepares the non-pilot passenger to participate in airplane flight, and to take over and successfully land the airplane should the pilot become incapacitated.

**AVT 111 INSTRUMENT PILOT GROUND  
SCHOOL/4(4-0-0)**

Prerequisite: AVT 101  
Focuses on preparation for the FAA Instrument Rating Knowledge Exam.

**AVT 112 INSTRUMENT PILOT FLIGHT/4  
(4-0-0)**

Prerequisites: AVT 101 or Instructor permission.  
Focuses on flight training in preparation for the Instrument Rating, Single Engine Airplane FAA Practical Test, and completing requirements for the Instrument Rating.

**AVT 140 AIRCRAFT SYSTEMS FOR PILOTS  
– AIRFRAME/3(3-0-0) See AMT 140**

Covers the study of the basic mechanical systems and structural components of aircraft to supplement instruction received in flight training.

**AVT 141 AIRCRAFT SYSTEMS FOR PILOTS  
– POWERPLANT/3(3-0-0) See AMT 141**

Study of the basic operating systems of aircraft powerplants to supplement instruction received in flight training.

**AVT 145 SIMULATOR LAB I/1(1-0-0)**

Prerequisites: AVT 101, Airplane Single or Multi-Engine Land.  
Reviews attitude instrument flight for the student who desires instruction in addition to their normal Instrument Training, or for rated Pilots desiring to upgrade or refresh their skills utilizing the Flight Training Device.

**AVT 146 SIMULATOR LAB II/1(1-0-0)**

Prerequisite: AVT 145.  
Continues training in the Flight Training Device for those having completed AVT 145 (Simulator Lab I).

**AVT 151 NIFA I/.5 (.5-0-0)**

The purposes of NIFA are to promote, encourage, and foster safety in aviation. These purposes shall be fulfilled by developing and advancing aviation education, conducting Regional and National Safety And Flight Evaluation CONferences (SAFECON) and promoting, encouraging, and fostering communication and cooperation among students, educators, educational institutions, and the aviation industry. NIFA I will be an introductory class for the familiarization of basic flight and ground events and how it relates to safety.

**AVT 201 COMMERCIAL PILOT GROUND SCHOOL/2(2-0-0)** Prerequisites: AVT 101 with Instrument Rating or Department Chair permission.

Prepares the student for the Commercial Pilot Airplane, Single Engine, Land FAA Knowledge Exam.

**AVT 202 COMMERCIAL FLIGHT I/3(3-0-0)**

Prerequisite: AVT 101 with an Instrument Rating or Department Chair permission. This course is the first of a two-part sequence of flight training in preparation for the Commercial Pilot Certificate, Airplane, Single Engine Land FAA Practical Test. Consists of the cross country aeronautical experience required for the Commercial Certificate.

**AVT 203 COMMERCIAL FLIGHT II/4(4-0-0)**

Prerequisites: AVT 202 or Department Chair permission. Continuation of flight training in preparation for the Commercial Pilot, Airplane Single Engine, Land FAA Practical Test, completing requirements for the Commercial Pilot Certificate.

**AVT 205 MOUNTAIN FLYING GROUND SCHOOL/1(1-0-0)** Prerequisite: AVT 101 or Department Chair permission.

Acquaints the student with the unique aspects of flying in mountainous terrain and the additional knowledge and proficiency necessary for safe and efficient operation in mountain and high altitude terrain.

**AVT 206 CREW RESOURCE MANAGEMENT/1(1-0-0)** Prerequisite: Instrument Rating.

Focuses on classroom instruction coupled with Line Oriented Flight Training (LOFT) in a Flight Training Device. Covers the knowledge, skills, and attitudes necessary to enhance safety and operate effectively as a member of an airplane crew.

**AVT 207 MULTI-ENGINE GROUND SCHOOL/1(1-0-0)** Prerequisite: AVT 101 or Commercial Pilot Certificate for Airplane Single Engine Land.

Prepares the student for the FAA Practical Test for Private or Commercial Pilot, Airplane Multi-Engine Land.

**AVT 208 MULTI-ENGINE FLIGHT/1(1-0-0)**

Prerequisite: Private or Commercial Airplane, Single Engine, Land Pilot Certificate.

Focuses on flight training in preparation for the Airplane, Multi-Engine Rating and completing requirements for this Rating.

**AVT 211 FUNDAMENTALS OF INSTRUCTION/2(2-0-0)**

Prerequisite: Commercial Pilot Certificate with Instrument Rating.

Focuses on preparation for the FAA Fundamentals of Instructing Knowledge Exam.

**AVT 212 FLIGHT INSTRUCTOR GROUND SCHOOL/2(2-0-0)**

Prerequisite: AVT 211 or equivalent. Focuses on preparation for the FAA Flight Instructor Airplane Knowledge Exam.

**AVT 213 FLIGHT INSTRUCTOR FLIGHT/1(1-0-0)** Prerequisite: AVT 211 and 212, or equivalent instruction and Department Chair permission.

Focuses on flight training in preparation for the Flight Instructor Airplane, Single-Engine Land FAA Practical Test, completing requirements for the Flight Instructor Certificate.

**AVT 221 INSTRUMENT INSTRUCTOR GROUND SCHOOL/2(2-0-0)** Prerequisite:

Flight Instructor Certificate – Airplane Single Engine Land, or consent of Department Chair. Focuses on preparation for the FAA Instrument Instructor Knowledge Exam.

**AVT 222 INSTRUMENT INSTRUCTOR FLIGHT/1(1-0-0)** Prerequisite: Flight Instructor Certificate, Airplane Single Engine Land.

Focuses on flight training in preparation for the Flight Instructor Instrument Airplane, Single-Engine Land FAA Practical Test, completing requirements for the Instrument Instructor Certificate.

**AVT 223 MULTI-ENGINE INSTRUCTOR FLIGHT/1(1-0-0)** Prerequisite: Flight Instructor – Airplane Single Engine Land Certificate.

Focuses on flight instruction in preparation for the addition of Multi-Engine Rating to the Flight Instructor Airplane Single Engine Land Certificate.

**AVT 235 PILOT REFRESHER FLIGHT/1(1-0-0)** Prerequisite: Pilot Certificate.

Provides a refresher to allow a Certificated Pilot to maintain or regain proficiency. May count as a Flight Review when the requirements of CFR Part 61.56 are met.

**AVT 236 TAILWHEEL TRANSITION FLIGHT 1(1-0-0)** Prerequisite: Private Pilot Certificate and Instructor permission.

Focuses on flight training in preparation to receive the Tail-Wheel Endorsement from a Certificated Flight Instructor.

**AVT 237 BASIC AEROBATICS/1(1-0-0)**

Prerequisite: Private Pilot Certificate, Airplane Single Engine Land.

Introduces the student to the unusual attitudes of flight with emphasis on technique and recovery from inadvertent unusual attitudes. Maneuvers may include but are not limited to stalls, spins, aileron rolls, loops, Cuban eight, barrel rolls, split « s », and cloverleaf. The FAA required parachutes are provided. All flights in this course are dual only.

**AVT 240 AIRPORT MANAGEMENT/3(3-0-0)**

Studies the modern airport and the factors involved in its management. Various management functions of administration, finance, capital finance, operation, maintenance and public relations are analyzed.

**AVT 241 AIRLINE TRANSPORT PILOT FLIGHT/1(1-0-0)**

Prerequisite: 1500 hours pilot time, at least 23 years of age, at least a current third class medical certificate, have passed the ATP Knowledge Exam within the previous two years, and be able to meet the requirements of CFR Part 61, Subpart G.

Focuses on flight instruction in preparation for the FAA Airline Transport Pilot Practical Test.

**BIOLOGY**

*Statewide Guaranteed Transfer courses will be designated with (SC1)*

**BIO 104 BIOLOGY: A HUMAN APPROACH/4(3-2-0)**

Develops a basic knowledge of the structure and function of the human body by studying the body's structure as a series of interrelated systems. Includes cardiovascular, respiratory, digestive, lymphatic, musculoskeletal, nervous, endocrine, reproductive and urinary systems, and genetics. Emphasizes disease prevention and wellness. This course includes laboratory experience.

**BIO 105 SCIENCE OF BIOLOGY/4(3-2-0)**

Examines the basis of biology in the modern world and surveys the current knowledge and conceptual framework of the discipline.

Explores biology as a science - a process of gaining new knowledge - as is the impact of biological science on society. Includes laboratory experiences. Designed for non-science majors. (SC1)

**BIO 106 BASIC ANATOMY AND PHYSIOLOGY/4(3-2-0)**

Focuses on basic knowledge of body structures and function, and provides a foundation for understanding deviations from normal and disease conditions. This course is designed for individuals interested in health care and is directly applicable to the Practical Nursing Program, Paramedic Program and the Medical Office Technology program.

**BIO 110 FOUNDATIONS OF COLLEGE BIOLOGY/5(4-2-0)**

Emphasizes general concepts of biology as a science and includes basic chemistry, cell structure and function, genetics, and evolution. A preliminary course designed for students pursuing human anatomy and physiology. Includes laboratory experience.

**BIO 111 GENERAL COLLEGE BIOLOGY I WITH LAB/5(4-2-0)**

Examines the fundamental molecular, cellular and genetic principles characterizing plants and animals. Includes cell structure and function, and the metabolic processes of respiration, and photosynthesis, as well as cell reproduction and basic concepts of heredity. This course includes laboratory experience.(SC1)

**BIO 112 GENERAL COLLEGE BIOLOGY II WITH LAB/5(4-2-0)**

Prerequisite: Successful completion of BIO 111(Grade C or better) or instructor permission. A continuation of Biology I. Includes ecology, evolution, classification, structure, and function in plants and animals. This course includes laboratory experience.(SC1)

**BIO 115 HUMAN GENETICS/3(3-0-0)**

Focuses on a study of the inheritance of human traits. It is a non-mathematical study for the non-science major. Includes Mendelian, non-Mendelian, sex-linked, blood type traits, inherited diseases and ethics.

**BIO 143 ECOLOGY OF COLORADO/3(3-0-0)**

Studies the natural environments in Colorado. Explores the vast natural environments of Colorado and the plants and animals that inhabit the life zones of our majestic plains, mountains, and valleys. Discovers the interrelationships of man and his Colorado environment - past, present, and future. Through an inquiry approach, the student examines the changing needs and roles of our environments. Field trips include Roxborough State Park, Garden of the Gods, Mt. Evans, Pikes Peak, Deer Creek Canyon, Daniels Park, Barr Lake or others.

**BIO 152 WILDLIFE BIOLOGY/3(3-0-0)**

Studies the biology of wild mammals, birds, and fish. Focuses on conservation of wildlife and fisheries resources.

**BIO 154 BIOLOGY OF PLANTS/4(2-4-0)**

Focuses on the diversity of plants, the structure and function of plants, the ecology of plants, and human use of plants. Emphasizes seed-producing vascular plants, especially flowering plants. Laboratory and field experience is included.

**BIO 201 HUMAN ANATOMY & PHYSIOLOGY I/4(3-2-0)**

Prerequisite: BIO 111 or instructor permission.. Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, nervous, and endocrine systems. Includes a mandatory hands-on laboratory experience covering experimentation, microscopy, observations, and dissection. This is the first semester of a two-semester sequence.(SC1)

**BIO 202 HUMAN ANATOMY & PHYSIOLOGY II/4(3-2-0)**

Prerequisite: BIO 201 or equivalent, or instructor permission. Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving experimentation, microscopy, observations, and

dissection. This is the second semester of a two-semester sequence. (SC1)

**BIO 204 MICROBIOLOGY/4(3-2-0)**

Prerequisite: BIO 111 or equivalent, or instructor permission.

Designed for health science majors. Examines microorganisms with an emphasis on their structure, development, physiology, classification, and identification. The laboratory experience includes culturing, identifying, and controlling microorganisms with an emphasis on their role in infectious disease.(SC1)

**BIO 216 HUMAN PATHOPHYSIOLOGY/4(4-0-0)**

Prerequisites: BIO 201, 202 or instructor permission.

Focuses on the alterations in physiological, cellular, and biochemical processes, the associated homeostatic responses, and the manifestations of disease.

**BIO 222 GENERAL COLLEGE**

**ECOLOGY/4(3-2-0)** Prerequisite: BIO 111 or equivalent, or instructor permission.

Studies the interrelationships between organisms and their environment. Applies evolutionary theory to the study of composition and function of aquatic and terrestrial ecosystems, population biology, pollution, and the effects of man on ecosystems. Includes laboratory and field experiences.

**BIO 228 FIELD BIOLOGY III/4(3-2-0)**

Prerequisite: BIO 111 or equivalent, or instructor permission

Involves in-depth field study of natural environments within and outside of the United States. The course varies from seven to twenty-one days in length. Focuses on the identification of organisms, as well as an examination of ecological concepts and principles. Requires hands-on laboratory and field experience (includes extensive hiking).

**BIO 275 SPECIAL TOPIC/0.0-12**

Covers a specific topic within Biology, as determined by the instructor. Reflects the special expertise of the faculty and/or the special needs of the students.

**BIO 281 INTERNSHIP/2 (2-0-0)**

Prerequisite: BIO 111 or equivalent or Instructor permission.

Covers a specific topic within Biology, as determined by the instructor. Reflects the special expertise of the faculty and/or the special needs of the students.

**BUSINESS TECHNOLOGY****BTE 100 COMPUTER KEYBOARDING/1 (0-2-0)**

Designed for students who have minimal or no keyboarding skills. Introduces the touch method of keyboarding, as well as the basic operation and functions of the equipment. Emphasizes learning the alphanumeric keyboard, proper technique, and speed control.

**BTE 155 Word Processing Techniques I/3 (3-0-0)**

Provides instruction in the preparation of business documents for the modern office using current software and learning software commands and functions. Includes creating, processing, and editing documents.

**BTE 156 BUSINESS MATHEMATICS WITH CALCULATORS/4(3-2-0)**

Covers basic business mathematics using the touch system on electronic calculators to solve business problems.

**BUSINESS****BUS 115 INTRODUCTION TO BUSINESS/3 (3-0-0)**

Focuses on the operation of the American business system. Covers fundamentals of the economy, careers and opportunities, marketing, management, production, governmental regulations, tools of business and social responsibilities.

**BUS 181 INTERNSHIP/1-6**

Prerequisite: Program Advisor's approval. Provides students with hands-on training in their career field. Occurs in a business setting arranged through a Student Work Experience (SWE)/Internship Coordinator, or by utilizing a current employment organization. Student is expected to work a minimum of 7.5 hours per week. Students attend 3 seminars during the semester of enrollment. Class utilizes cooperative work experience or project methods depending on the individual situation.

**BUS 187 COOPERATIVE EDUCATION/ INTERNSHIP/0.5-6**

Provides students with the opportunity to supplement course work with practical work experience related to their educational program and occupational objectives. Students are placed at approved work stations related to their program of study. They work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor/coordinator.

**BUS 216 LEGAL ENVIRONMENT OF BUSINESS/3(3-0-0)**

Emphasizes public law, regulation of business, ethical considerations, and various relationships existing within society, government, and business. Specific attention is devoted to economic regulation, social regulation, regulation and laws impacting labor-management issues, and environmental concerns. Students develop an understanding of the role of law in social, political, and economic change.

**BUS 217 BUSINESS COMMUNICATION AND REPORT WRITING/3(3-0-0)**

Emphasizes effective business writing and covers letters, memoranda, reports, application letters, and resumes. Includes the fundamentals of business communication and an introduction to international communication.

**BUS 226 BUSINESS STATISTICS/3(3-0-0)**

Prerequisite: MAT 090 or instructor permission. Focuses on statistical study, descriptive statistics, probability, and the binomial distribution, index numbers, time series, decision theory, confidence intervals, linear regression, and correlation. Intended for the business major.

**BUS 281 INTERNSHIP/1-6**

Prerequisite: BUS 181 or instructor permission. Provides continued instruction and the opportunity for students to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor.

## **COMPUTER ASSISTED DRAFTING**

### **CAD 101 COMPUTER AIDED DRAFTING I/3 (3-0-0)**

Focuses on basic computer aided drafting skills using the latest release of CAD software. Includes file management, Cartesian coordinate system, drawing set-ups, drawing aids, layer usage, drawing geometric shapes, editing objects, array, text applications, basic dimensioning, and Help access.

### **CAD 110 BASIC CAD/6 (6-0-0)**

Serves all emphasis areas of engineering graphics. Includes fundamentals of layout, construction and dimensioning techniques as applied to two-dimensional drawings; systems and database management; and production of computer-generated drawings to ASME, AIA and other applicable specifications.

### **CAD 233 CIVIL 3D/3(3-0-0)**

Provides students with the basics to advanced software application necessary to produce 3D Civil models and 2D drawings using the latest release of the Civil 3D software. This course will cover topics including components and program interface, linework, geometry, 2D to 3D civil CAD applications.

## **CHEMISTRY**

*Statewide Guaranteed Transfer courses will be designated with (SC1)*

### **CHE 101 INTRODUCTION TO CHEMISTRY I/5(3-4-0)** Co-requisite: MAT 090.

Includes the study of measurements, atomic theory, chemical bonding, nomenclature, stoichiometry, solutions, acid and base, gas laws, and condensed states. Laboratory experiments demonstrate the above concepts qualitatively and quantitatively. Designed for non-science majors, students in occupational and health programs, or students with no chemistry background. (SC1)

### **CHE 102 INTRODUCTION TO CHEMISTRY II 5(3-4-0)** Prerequisite: CHE 101 or instructor permission.

Focuses on introductory organic and biochemistry (sequel to Introduction to Chemistry I). This course includes the study of hybridization of atomic orbitals for carbon, nomenclature of both organic and biochemical compounds, physical and chemical properties of various functional groups of organic chemistry,

and physical and chemical properties of biochemical compounds along with their biochemical pathways. Laboratory experiments are included.(SC1)

### **CHE 105 CHEMISTRY IN CONTEXT/5(4-2-0)**

Covers the study of measurements, matter, molecules, atoms, chemical bonding, nomenclature, energy, acids, bases, and nutrition. Course work examines chemistry in the modern world and surveys the current knowledge as well as the conceptual framework of the discipline. Chemistry as a science is explored, as is the impact of chemistry on society. This course includes laboratory experience and is designed for non-science majors.(SC1).

### **CHE 109 GENERAL, ORGANIC AND BIOCHEMISTRY/4(3-2-0)**

Focuses on fundamentals of inorganic, organic and biochemistry primarily for students in health science, non-science majors and/or students in the occupational and health related career areas. Includes the study of measurement, atomic theory, chemical bonding, nomenclature, stoichiometry, solutions, acid and base chemistry, gas laws, condensed states of matter and nuclear chemistry, nomenclature of organic compounds, properties of different functional groups, nomenclature of various biological compounds, their properties and biological pathways.

### **CHE 111 GENERAL COLLEGE CHEMISTRY I/5(3-4-0)** Prerequisite: One year high school chemistry or equivalent, or instructor permission.

Co-requisite: College algebra or permission of instructor. Focuses on basic chemistry and measurement, matter, chemical formulas, reactions and equations, stoichiometry and thermo chemistry. This course covers the development of atomic theory culminating in the use of quantum numbers to determine electron configurations of atoms, and the relationship of electron configuration to chemical bond theory and molecular orbital theory. The course includes gases, liquids, and solids and problem-solving skills are emphasized through laboratory experiments.(SC1)

**CHE 112 GENERAL COLLEGE CHEMISTRY**

**II/5(3-4-0)** Prerequisite: CHE 111, MAT 121. Presents concepts in the areas of solution properties, chemical kinetics, chemical equilibrium, acid-base and ionic equilibrium, thermodynamics, electrochemistry, nuclear chemistry, and organic chemistry. This course emphasizes problem solving skills and descriptive contents for these topics. Laboratory experiments demonstrate qualitative and quantitative analytical techniques. (SC1)

**CHE 211 ORGANIC CHEMISTRY I/5(4-2-0)**

Prerequisite: CHE 112. Focuses on compounds associated with the element carbon including structure and reactions of aliphatic hydrocarbons and selected functional group families. The course covers nomenclature of organic compounds, stereochemistry, reaction mechanisms such as SN1, SN2, E1 and E2. Laboratory experiments demonstrate the above concepts plus the laboratory techniques associated with organic chemistry.

**CHE 212 ORGANIC CHEMISTRY II/5(4-2-0)**

Prerequisite: CHE 211. Continues the investigation into the chemistry of carbon-based compounds, their reactions and synthesis including the structure, physical properties, reactivities, and synthesis of organic functional groups not covered in the first semester. The course explores functional groups including alcohols, ethers, aromatics, aldehydes, ketones, amines, amides, esters, and carboxylic acids and the reactions and reaction mechanisms of aromatic compounds. An introduction to biochemical topics may be included if time permits. Laboratory experiences demonstrate the above concepts and the laboratory techniques associated with organic chemistry.

**COMPUTER INFORMATION SYSTEMS****CIS 110 INTRODUCTION TO THE PC/1(1-0-0)**

Provides the beginning computer user with hands-on experience in the elementary use of the personal computer. This course introduces the basic feature of and the terminology associated with personal computers, including topics such as database, spreadsheet, and word processing.

**CIS 115 INTRODUCTION TO COMPUTER INFORMATION SYSTEMS/3(3-0-0)**

Focuses on an overview of the needs for and roles of computer information systems. Emphasizes computer requirements in organizations, history, hardware functions, programming, systems development, and computer operations. Introduces computer applications.

**CIS 118 INTRODUCTION TO PC APPLICATIONS/3(3-0-0)**

Introduces basic computer terminology, file management, and PC system components. Provides an overview of office application software including word processing, spreadsheets, databases, and presentation graphics. Includes the use of a web browser to access the Internet.

**CIS 124 INTRODUCTION TO OPERATING SYSTEMS/3(3-0-0)**

Introduces concepts, terminology and hands-on skills in the use of DOS and Windows. Emphasizes navigation, file manipulation, file creation and troubleshooting.

**CIS 128 WINDOWS COMPLETE/3(3-0-0)**

Introduces the functions and capabilities of Microsoft Windows. Includes configuring and modifying the operating system environment.

**CIS 130 INTRODUCTION TO THE INTERNET/1(1-0-0)**

Enhances the student's knowledge of the Internet and its resources. Individuals learn terminology in dealing with the Internet. Includes privacy and copyright issues with information retrieved from the Internet. Students experience the use of e-commerce, multimedia and e-mail. Explores searching the Internet and credibility of information obtained with searches.

**CIS 131 WORD PROCESSING I/1(1-0-0)**

Prerequisite: Ability to keyboard by touch. Gives the student an introductory working knowledge of word processing. The student will create, edit, format, save, and print documents. The student will use spell check, grammar check, and thesaurus features. The student will format text, paragraphs, and pages, change margins and use the find and replace feature as well as create envelopes and labels.

**CIS 132 WORD PROCESSING II/1(1-0-0)**

Prerequisite: CIS 131 or instructor permission. Increases the student's working knowledge of word processing. In this module, the student will learn to use the merge function. The student will create multiple page reports using headers, footers, footnotes, endnotes, and page numbers. The student will create and format documents using columns and tables.

**CIS 133 WORD PROCESSING III/1(1-0-0)**

Prerequisite: CIS 131 & 132 or instructor permission. Increases the student's working knowledge of word processing. In this module, the student will learn to use borders, drawing, word art, and graphics. The student will create macros, charts, outlines, styles, and fill-in forms. The student will also sort and select records. This course is the third in a series of modules.

**CIS 145 COMPLETE PC DATABASE/3(3-0-0)**

Prerequisite: CIS 118. Explores a complete array of database skills. Includes table, query, form, and report creation and modification. Other topics include application integration and automation of database tasks within the database.

**CIS 155 PC SPREADSHEET CONCEPTS/3(3-0-0)**

Exposes the student to a wide range of uses of the electronic spreadsheet with special emphasis on using it as a business tool. Includes fundamentals and terms, creating and saving workbooks, entering and using formulas, formatting, printing, multiple-page workbooks, creating charts, entering and using functions, managing lists, and simple macros.

**CIS 165 COMPLETE PRESENTATION GRAPHICS: POWERPOINT/3(3-0-0)**

Focuses on the development of presentation graphics materials including graphs, charts, illustrations, and diagrams. Emphasizes effective communication through computerized presentations. Covers features of PowerPoint and effective presentation techniques.

**CIS 167 DESKTOP PUBLISHING/3(3-0-0)**

Prerequisite: Knowledge of word processing. Introduces the concepts and applications for desktop publishing using word processing software. Emphasizes page layout and design with techniques for incorporating text and

graphics and final production of printed documents.

**CIS 240 DATABASE DESIGN AND DEVELOPMENT/3(3-0-0)**

Introduces the basic concepts of relational databases, data storage, and retrieval. Covers database design, data modeling, transaction processing, and introduces the Structured Query Language for databases.

**CIS 267 MANAGEMENT OF INFORMATION SYSTEMS/3 (3-3-0)**

Introduces the concepts and techniques of managing computer-based information resources. Includes hardware, software, personnel, control techniques, and the placement and integration of information systems resources within the organization.

**COMMUNICATIONS****COM 100 WORKPLACE COMMUNICATIONS/1(1-0-0)**

Covers topics that teach students how to communicate effectively in the workplace. Includes listening, speaking, reading, and writing, and emphasizes the importance of these four modes of communication in the workplace.

**COM 105 CAREER COMMUNICATIONS/3(3-0-0)**

Develops skills needed in obtaining and keeping a job. Includes job searching, applications, resumes, interviews, and the dynamics of customer, peer, and managerial relationships. Emphasizes speaking, writing, listening, critical reading skills, and vocabulary development essential to the employment world.

**COM 115 PUBLIC SPEAKING/3(3-0-0)**

Combines the basic theory of speech communication with public speech performance skills. Emphasizes is on speech delivery, preparation, organization, support, and audience analysis.

**COM 125 INTERPERSONAL COMMUNICATION/3(3-0-0)**

Examines the communication involved in interpersonal relationships occurring in family, social and career situations. Relevant concepts include self-concept, perception, listening, nonverbal communication, and conflict.

**COM 205 VOICE AND DICTION/3(3-0-0)**

Studies the physiological production of the speaking voice and methods for improving the quality of the spoken word in general American speech.

**COM 214 NATURAL RESOURCE INTERPRETATION AND COMMUNICATION/3 (3-0-0)**

Provides communication and interpretation training for those required to interpret natural resource data or present information about historical characters and times for the public. The course focuses on experiential skill development in the area of educational interpretation including, but not limited to, in-class and on-site interpretation of historical, geological, zoological, and other environmental topics and sites. It also stresses the preparation of educational presentations aimed at all levels of learner from pre-K through mature adulthood using various presentation techniques including, but not limited to, visual aids, props, dramatic performance, and puppetry.

**COM 220 INTERCULTURAL COMMUNICATION/3(3-0-0)**

Explores the link between culture and communication and will develop and/or enhance communication skills and the abilities appropriate to a multicultural society. Emphasis will be on understanding diversity within and across cultures. Relevant concepts include perception, worldview, context, ethics, language, and nonverbal communication

**COM 226 ORAL INTERPRETATION/3(3-0-0)**

Excites and exposes the student to the potential offered in the reading and performing of great literature such as is found in prose, poetry, and drama.

**COM 230 ARGUMENTATION AND DEBATE/3(3-0-0)** Prerequisite: COM 115 or instructor permission.

Acquaints the student with the theory of argumentation, including reasoning, evidence, refutation, critical thinking, and extemporaneous speaking. It includes practice in preparation and oral analysis of selected arguments and styles of debating.

**COSMETOLOGY**

Student must be 16 years of age and have appropriate assessment scores to enroll in this program. (ACCUPLACER Reading 62, English 70, Math 56)

**COS 103 SHAMPOO/RINSES/CONDITIONERS I/1(1-0-0)**

Introduces various types of scalp treatments and shampoos. Enables student to recognize and treat disorders of hair and scalp. Covers product knowledge and proper massage techniques to help control disorders and to cleanse the hair and scalp. Includes terminology dealing with hair structure, scalp, and hair disorders. Provides training in a lab or classroom setting.

**COS 110 INTRODUCTION TO HAIR COLORING/2(1-2-0)**

Provides theory pertaining to the law of color, theory of color, chemistry of color, product knowledge, and analysis of hair and scalp. Covers basic techniques and procedures for the application of hair coloring.

**COS 111 INTERMEDIATE I: HAIR COLORING/2(1-2-0)**

Focuses on theory and practical application of color products, formulations of color, level and shades of color. Examines techniques in a specialized class or in a supervised salon setting.

**COS 120 INTRODUCTION TO HAIR CUTTING/2(2-0-0)**

Introduction to the theory relevant to patron protection, angles, élévations, and the analysis of hair textures as related to hair cutting. Covers the proper use and care of hair cutting implements. Focuses on basic hair cutting techniques using all cutting implements. Disinfection, sanitation procedures as they relate to haircutting.

**COS 121 INTERMEDIATE I: HAIRCUTTING/2(1-2-0)**

Focuses on theory related facial shapes, head and body forms to determine the clients appropriate haircut. Incorporates practical applications of hair cutting techniques in specialized classes or in the supervised salon (clinical setting).

**COS 130 INTRODUCTION TO HAIR STYLING/2(1-2-0)**

Combines theory with the practical application of roller placement, shaping, pincurls, finger waves, airforming iron curling, soft pressing and hard pressing.

**COS 131 INTERMEDIATE I: HAIR STYLING/2(0-4-0)**

Focuses on the accepted methods of styling hair, air forming roller sets, finger waves pin curls braiding and hair pressing.

**COS 140 INTRODUCTION TO CHEMICAL TEXTURE/1(0-2-0)**

Introduces a combination of theory and practice focusing on the analysis of hair and scalp, proper equipment and product knowledge. Includes basic techniques in permanent waving and chemical relaxing. Provides training in a classroom or lab setting on mannequins or live models.

**COS 141 INTERMEDIATE I:CHEMICALTEXTURE/1(0.5-1-0)**

Emphasizes theory and practical application of permanent waves and chemical relaxers in specialized classes or a supervised salon setting. Enables the student to practice different wrapping techniques required by trend styles.

**COS 150 LAWS, RULES AND REGULATIONS/1(1-0-0)** Provides instruction on the laws, rules and regulations and how they govern the cosmetology and barber industry. This affects the student, licensed individual, salons and school owners.

**COS 160 INTRODUCTION TO DISINFECTION, SANITATION & SAFETY/ 2(2-0-0)**

Introduces the various methods of disinfection, sanitation, and safety as used in the cosmetology industry. Includes classroom study of bacteriology and the terminology dealing with cosmetology.

**COS 161 INTERMEDIATE I: DISINFECTION, SANITATION & SAFETY/1(0.5-1-0)**

Focuses on the theory and daily practice of proper methods of disinfection, sanitation and safety procedures as related to all phases of cosmetology. Covers terminology and training of disinfection, sanitation and safety procedures. Also includes customer service in a supervised salon (clinical) setting or specialized class.

**COS 203 SHAMPOOS/RINSES/CONDITIONERS II/ 1(0.5-1-0)**

Provides theory and practical training in shampoos, rinses and conditioners. Examines advanced techniques to prepare the student for employment. Includes preparation for the State Board Licensing Examination in shampoos, rinses and conditioners.

**COS 210 INTERMEDIATE II: HAIR COLORING/2(1-2-0)**

Provides continued instruction in the theory and practical application of color products, formulations of color, level and shades of color. Enables students to practice techniques in a specialized class or in a supervised salon setting.

**COS 211 ADVANCED HAIR COLORING/ 2(1-2-0)**

Provides continued instruction on advanced theory and practical techniques in hair coloring. Focuses on the recognition of color problems and color correction procedures. Covers advanced techniques and product knowledge to prepare the student for employment. Prepares the student for the State Board Licensing Examination pertaining to hair coloring.

**COS 220 INTERMEDIATE II: HAIRCUTTING/2(1-2-0)**

Provides continued instruction in the theory related to facial shapes, head and body forms to determine the client's appropriate haircut. Incorporates practical applications of haircutting techniques.

**COS 221 Advanced Hair Cutting/2(1-2-0)**

Focuses on advanced cutting techniques using all the cutting tools. Emphasizes current fashion trends. Includes student preparation for the State Licensure examination.

**COS 230 Intermediate II: Hair Styling/2(1-2-0)**

Provides continued instruction on accepted methods of styling hair, air forming, roll set, finger waves and hair pressing. Examines techniques in specialized classes or in a supervised salon setting.

**COS 231 Advanced Hair Styling/1(0.5-1-0)**

Focuses on theory and advanced techniques in all phases of hair styling to prepare the student for employment. Training is a combination of supervised salon (clinical) work and specialized classes. Includes student preparation for the State Board Licensing Examination relating to hairstyling.

**COS 240 INTERMEDIATE II: CHEMICAL TEXTURE/1(0-2-0)**

Provides continued instruction in the theory and practical application of permanent waves and chemical relaxers in specialized classes or a supervised salon setting. Enables students to practice different wrapping techniques required by trend styles.

**COS 241 ADVANCED CHEMICAL TEXTURE/1(0.5-1-0)**

Focuses on advanced techniques to prepare the student for employment and the changes in current industry standards. Instruction is provided in specialized classes or supervised salon (clinical) setting. Includes student preparation for the State Board Licensing Examination pertaining to permanent waves and chemical relaxers.

**COS 250 MANAGEMENT, ETHICS, INTERPERSONAL SKILLS & SALESMANSHIP/1(1-0-0)**

Emphasizes the importance of salon management and the knowledge and skills necessary to build a successful business. Focuses on the importance of interpersonal skills and basic techniques in salesmanship and customer services. Integrates job readiness skills and professional ethics.

**COS 260 INTERMEDIATE II: DISINFECTION, SANITATION & SAFETY/2(1-2-0)**

Provides continued study of theory and practice of proper methods of sterilization, disinfection, sanitation and safety procedures as related to all phases of the industry. Covers terminology and training of disinfection, sanitation and safety procedures. The individual responsibility to provide a safe work environment is practiced.

**COS 261 ADVANCED DISINFECTION, SANITATION & SAFETY/1(1-0-0)**

Provides advanced training on decontamination and safety practices in a supervised salon and/or classroom setting. Examines advanced techniques that prepare the student for

employment. Includes student preparation for the State Board Licensing Examination in decontamination and safety for all aspects of the industry. Study of OSHA requirements for schools and salon are done in a theory or practical setting.

**COS 262 ADVANCED II: DISINFECTION, SANITATION & SAFETY /3(2-2-0)**

This course is the extra hours/credits required for the hairstylist program, per State Board of Colorado Barber/Cosmetology Board. Provides advanced training on decontamination and safety practices in a supervised salon and/or classroom setting. Examines advanced techniques that prepare the student for employment. Includes student preparation for the State Board Licensing Examination in decontamination and safety for all aspects of the industry. Study of OSHA requirements for schools and salon are done in a theory or practical setting.

**COS 275 SPECIAL TOPICS/0.5-6**

Provides students with a vehicle to pursue in depth exploration of special topics of interest.

**COS 279 SEMINAR/WORKSHOP: COSMETOLOGY OCCUPATIONS/0.5-6**

This course provides students with an experiential learning opportunity.

**COS 280 Internship/0.5-6**

This course provides students with the opportunity to supplement coursework with practical work experience related to their educational programs. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor.

**COS 285 INDEPENDENT STUDY/1-10**

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

**COS 288 COSMETOLOGY PRACTICUM/ 0.5-10**

Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor.

**COS 289 CAPSTONE/1-3**

Student must have acquired 1,000 hours or better.

Provides advanced training in all course areas and prepares student for the State Board of Cosmetology Licensing Exam. Hours will be arranged.

**COS 290 PROFESSIONAL DEVELOPMENT/CONTINUING EDUCATION/0.5-12**

Provides students with a vehicle to pursue indepth exploration of special topics of interest.

**CRIMINAL JUSTICE****CRJ 110 INTRO TO CRIMINAL JUSTICE/3 (3-0-0)**

Introduces a study of the agencies and processes involved in the criminal justice system: the legislature, the police, the prosecutor, the public defender, the courts, and corrections. Includes an analysis of the roles and problems of the criminal justice system in a democratic society, with an emphasis upon inter-component relations and checks and balances.

**CRJ 220 HUMAN RELATIONS & SOCIAL CONFLICT/3(3-0-0)**

Highlights the environmental, organizational and socio-psychological dimensions of social control. Includes the study of individual attitudes, beliefs and behavior involved in role conflicts, community relations and conflict management in the social structure.

**DENTAL HYGIENE****DEH 101 PRE-CLINICAL DENTAL HYGIENE LECTURE/2(2-0-0)**

Prerequisite: Enrollment in the Dental Hygiene Program.

Explores basic dental hygiene theory and development of law. Covers the basic categories of basic skills. Focuses on the application of diagnostic, emergencies, causes and management. preventative and therapeutic procedures and includes an introduction to dentistry and dental hygiene, dental and oxygen support systems. medical terminology, infection control, the removal of tooth deposits, patient medical and dental histories, preventive instruction and treatment planning.

**DEH 102 PRE-CLINICAL DENTAL HYGIENE LAB/3(0-6-0)**

Prerequisite: Enrollment in the Dental Hygiene Program.

Focuses on clinical experiences in basic dental

hygiene procedures and techniques including basic instrumentation, infection control, and patient assessment skills. Students participate in a variety of clinical learning experiences.

**DEH 103 DENTAL ANATOMY AND HISTOLOGY/3(2-2-0)**

Prerequisite: Enrollment in the Dental Hygiene Program.

Focuses on a study of the anatomical and histological features of the teeth and other oral structures of the oral cavity. Includes terminology, anatomical landmarks, and tooth identification. Introduces histology, the embryology of the face and oral and nasal cavities, development of the teeth, and the histological features of the various components of the teeth and surrounding structures.

**DEH 104 DENTAL RADIOLOGY/3(2-2-0)**

Prerequisite: Enrollment in the Dental Hygiene Program.

Introduces principles of x-radiation production and safety factors; application and theory of properly exposing, processing, mounting and evaluating radiographs; identification of normal anatomic landmarks and pathologic conditions. Focuses on utilization of the laboratory in performing procedures necessary to produce quality radiographs.

**DEH 111 DENTAL & MEDICAL EMERGENCIES/2(2-0-0)**

Prerequisite: Enrollment in the Dental Hygiene Program.

Introduces the management of emergency situations in the dental office setting. Emphasizes reduction of risk for emergencies, identification and management of anxiety, and stress recognition protocol. Provides practical skills applicable to dental hygienists and the scope of responsibility for medical emergency management as dictated by state dental practice law. Covers the basic categories of emergencies, causes and management. Includes content and use of emergency kits and oxygen support systems.

**DEH 112 DENTAL HYGIENE CLINIC LECTURE I/2(2-0-0)**

Prerequisite: Enrollment in the Dental Hygiene Program.

Focuses on prevention through patient education. Includes dental hygiene clinical procedures, such as sealants, polishing, fluoride

treatments, and treatment planning as well as instrumentation instruction.

**DEH 116 PREVENTIVE DENTISTRY AND SPECIAL NEEDS PATIENTS/2(2-0-0)**

Prerequisite: Enrollment in the Dental Hygiene Program.

Focuses on application of the basic sciences in maintaining healthy oral tissues for all patient populations. Emphasizes plaque and plaque-related diseases and the basic philosophy involved in controlling and/or preventing disease. Addresses the role of the dental hygienist in etiology, epidemiology of disease, primary preventive efforts, oral health education, nutrition and dietary measures, and preventive agents.

**DEH 122 PERIODONTICS I/2(2-0-0)**

Prerequisite: First-semester DEH course work. Introduces the principles of periodontics.

Focuses on recognition of the tissues in health and disease, macro and microanatomy of the periodontium, and histopathology of periodontal diseases and other related gingival conditions. Provides the theory and discussion of periodontal assessment, etiology, epidemiology, inflammatory process/immune response, and the AAP classification system.

**DEH 123 HEAD AND NECK ANATOMY/1(1-0-0)**

Prerequisite: Enrollment in the Dental Hygiene Program.

Focuses on the study of head and neck anatomy with emphasis on the muscles of mastication, the lymphatics, the TMJ, the nerve and vascular supply, and the oral cavity.

**DEH 126 DENTAL MATERIALS/2(1-1-0)**

Prerequisite: Enrollment in the Dental Hygiene Program.

Provides the dental hygiene student with a sound knowledge of the science of dental materials. Covers didactic and laboratory experiences and the physical properties, basic chemistry, and the clinical applications of the materials used in the practice of dentistry.

**DEH 132 APPLIED PHARMACOLOGY/2(2-0-0)**

Prerequisite: Enrollment in the Dental Hygiene Program.

Covers general pharmacology and reviews drugs that may influence the management of dental hygiene patients. Enables the student to develop sufficient knowledge of pharmacology to

permit safe and effective medical evaluation of patients for dental hygiene treatment.

**DEH 133 LOCAL ANESTHESIA/2(1-1-0)**

Prerequisite: Enrollment in the Dental Hygiene Program.

Provides a working knowledge of the theory and practice of local anesthesia as applied to the practice of dentistry/dental hygiene. Emphasizes mastery of the armamentarium and techniques of regional anesthesia. Covers the knowledge and skills necessary to administer local anesthetics proficiently and safely.

**DEH 138 NITROUS OXIDE/OXYGEN SEDATION/1(1-0-0)**

Prerequisite: Enrollment in the Dental Hygiene Program.

Provides a working knowledge of the latest equipment and methods of nitrous oxide/oxygen sedation administration in the dental office.

**DEH 170 CLINICAL PRACTICE OF DENTAL HYGIENE I/3(3-0-0)**

Prerequisite: Enrollment in the Dental Hygiene Program.

Provides clinical experience in patient skills assessment, instrumentation and additional preventative and prophylactic clinical procedures, while promoting and emphasizing professionalism and a strong sense of team participation and work ethic.

**DEH 171 CLINICAL PRACTICE OF DENTAL HYGIENE 1-A/3(0-0-6)**

Prerequisite: Enrollment in the Dental Hygiene Program. Continues patient care sessions for the performance of traditional dental hygiene treatment. Enables the student to provide treatment to periodontally involved patients utilizing advanced instrumentation and power scaling.

**DEH 201 CLINIC II LECTURE/2(2-0-0)**

Prerequisite: Enrollment in the Dental Hygiene Program.

Continues development of clinical skills with an introduction to Gracey curets, developing treatment plans for the periodontal patient and establishing maintenance schedule for oral health. Addresses special techniques for calculus detection. Allows student to demonstrate and practice through lab activities. Focuses on the patient with special needs. Student has sophomore standing in Dental Hygiene Program.

**DEH 203 PRACTICE MANAGEMENT/1(1-0-0)**

Involves the student in research, presentation, and discussion regarding legal and ethical considerations of patient care, and the roles, relationships, and requirements of the dental hygiene professional. Covers the organization and management of dental hygiene practice. Addresses state dental practice acts, licensure and credentialing, and various aspects of employment.

**DEH 204 COMMUNITY DENTAL HEALTH I/2(2-0-0)**

Prerequisite: Enrollment in the Dental Hygiene Program.

Course provides instruction in the concepts, methods and issues of dental public health. Emphasis is placed on evidence-based criteria for effective promotion and prevention of dental disease in the public health setting. Concepts of dental health education and program planning in the community setting are reinforced through case based materials, including methods of assessment, planning, implementation and evaluation of effectiveness. Course activities will reinforce skills in speaking and writing effectively in preparation for the subsequent community dental health field experience course.

**DEH 213 GENERAL AND ORAL PATHOLOGY/3(3-0-0)**

Prerequisite: Enrollment in the Dental Hygiene Program.

Focuses on the fundamentals of general pathology and the disease process. Covers oral pathology with emphasis on recognition and identification of pathologic conditions that most frequently occur around the oral cavity. Helps students identify appropriate referral mechanisms to render a definitive diagnosis.

**DEH 225 COMMUNITY DENTAL HEALTH II: FIELD EXPERIENCE/1(0.5-0.5-0)**

Prerequisite: Enrollment in the Dental Hygiene Program.

Provides practical application of community dental health theory and opportunities to conduct needs assessments on a variety of populations. Emphasizes meeting the educational needs of specific populations through program planning, implementation and evaluation. Incorporates supervised field experiences in low-income, school and other public facilities as well as private health and education oriented organizations.

**DEH 241 Immunology Aspects of Periodontal Disease/1(1-0-0)**

Prerequisite: First-semester DEH course work.

Introduces the principles of periodontics. Focuses on recognition of the tissues in health and disease, macro and microanatomy of the periodontium, and histopathology of periodontal diseases and other related gingival conditions. Provides the theory and discussion of periodontal assessment, etiology, epidemiology, inflammatory process/immune response, and the AAP classification system.

**DEH 242 PERIODONTICS II/2(2-0-0)**

Prerequisite: Second -semester DEH course work.

Continues to explore theoretical/clinical preparations with emphasis on dental hygiene process of care, treatment planning, non-surgical treatment, evaluation of treatment, and maintenance needs of the periodontal patient. Develops research and decision making skills with use of library and Internet resources relating to risk factors, etiologic agents, and treatment modalities. Includes comprehensive periodontal assessment, supplemental diagnostics, periodontal pharmacology, and evidence based treatment planning.

**DEH 268 CLINICAL THEORY OF DENTAL HYGIENE II/2(2-0-0)**

Provides the didactic theory for clinical practice of dental hygiene skills at the beginning of the second year of dental hygiene curriculum. Builds on clinic theory from first year curriculum to provide the knowledge base needed for treatment of patients with more advanced periodontal disease and medical/health factors. Focuses on: periodontal charting and documentation, interpretation of periodontal factors on radiographs, use of treatment planning in the dental hygiene process of care, legal parameters of record keeping and informed consent, use of oral photography, application of sealants, treatment of dental hypersensitivity, application of chemotherapeutics and professional oral irrigation, application of ergonomics in dentistry, clinical dental hygiene treatment considerations for patients with history of cardiac complications and diabetes.

**DEH 270 CLINICAL PRACTICE OF DENTAL HYGIENE II/6(0-0-12)**

Prerequisite: Enrollment in the Dental Hygiene Program.

Covers patient care sessions for the performance of traditional dental hygiene

treatment. Continues and expands periodontal patient care and special patient care sessions. Focuses on clinical competence in margination and polishing of restorations, nutrition counseling, oral irrigation, chemotherapeutics and OSHA compliance.

### **DEH 271 CLINICAL PRACTICE OF DENTAL HYGIENE III/6(0-0-12)**

Prerequisite: Enrollment in the Dental Hygiene Program.

Continues patient care session with emphasis on attaining a level of competency and efficiency for successful performance in clinical board exams and private practice. Focuses on clinical skill development in tobacco cessation, product selection, patient communications, curettage and special topics developed patient treatments. Provides elective extra-mural clinical sites for additional practice.

### **DEH 285 CLINICAL THEORY OF DENTAL HYGIENE III/1(1-0-0)**

Prerequisite: Enrollment in the Dental Hygiene Program.

Serves as the capstone course of the final semester of a two-year curriculum. Prepares the student for two major goals: basic competence for transition to provision of dental hygiene services in private practice; and the ability to successfully pass both written National Boards examinations and regional dental hygiene clinical examinations. Emphasizes the application of case based learning. Major topics include: cosmetic bleaching, air powered polishing devices, application of the re-evaluation process in treatment planning for periodontally involved cases, preparation for the CRDTS regional clinical exam process, application of an effective tobacco cessation process, technique and process for gingival curettage, technique and process for amalgam polishing and margination, care of cosmetic dental restorations, and maintenance of implants.

## **DIESEL**

### **DPM 103 DIESEL ENGINES I/4(3-2-0)**

Covers the theory and operation of diesel engines with emphasis on cylinder heads and valve trains diagnosis and repair. Also introduces the cooling system's importance with diagnosis and repair. Enables students to diagnose, test, and repair cylinder heads and cooling systems on diesel engines.

### **DPM 105 HEAVY DUTY POWERTRAINS I/3 (1-4-0)**

Focuses on drive axles and universal joints of heavy duty trucks and equipment. Students will cover operations, tests, removal, inspections, and repair of heavy duty drivelines, axles, and differentials.

### **DPM 106 DIESEL FUEL SYSTEMS/3(1-4-0)**

Covers the theory of operation and repair of fuel injection systems. Provides laboratory assignments that involve disassembly, assembly, and service procedures on fuel system components.

### **DPM 111 PREVENTIVE MAINTENANCE I/3 (1-4-0)**

Enables the student to perform preventive maintenance on heavy equipment and trucks, and complete appropriate maintenance records. Addresses the process of diagnostics and troubleshooting. Focuses on the importance of preventive maintenance.

### **DPM 121 HYDRAULIC SYSTEMS I/3(1-4-0)**

Offers instruction on the basic fundamentals of hydraulics and their applications. Diagnosis, service, and testing along with safety are stressed within this course.

### **DPM 122 HYDRAULIC SYSTEMS II/3(1-4-0)**

Offers instruction on the repair, replacement, measuring, and subsequent adjustments of components. Identification and repairing pumps, control valves, and cylinders is stressed within this course.

### **DPM 140 H/D STEERING & SUSPENSION I/3(2-2-0)**

Emphasizes lecture and related lab in the diagnosis and service of Heavy Duty mechanical and air suspension systems, wheels/tires and pressure management systems.

### **DPM 203 DIESEL ENGINES II/4(1-6-0)**

Covers the theory of operation and repair of diesel engines with emphasis on the cylinder block in big bore engines. Enables students to disassemble, inspect, and reassemble engines.

### **DPM 205 HEAVY DUTY POWERTRAINS II/3 (1-4-0)**

Teaches students to diagnosis clutch and transmission problems. Focuses on clutch, transmission, additional assembly operation, testing, and repairing. Students will learn

removal, rebuilding, inspection, repairing, and replacement of all components. Covers electrical systems on transmissions and related assemblies.

**DPM 206 HEAVY DUTY BRAKES I/3(2-2-0)**

Focuses on the various braking systems incorporated in heavy-duty trucks and heavy equipment. Includes a study of hydraulic brake systems and covers the diagnosis and service of the mechanical and electrical components.

**DPM 207 HEAVY DUTY BRAKES II/3(1-4-0)**

Teaches instruction in general service and maintenance procedures for the heavy-duty truck air brake system and its related pneumatic components. Operational checks, performance testing, and verifying system compliance with regulations (FMVSS No. 121) will be discussed.

**DPM 210 DIESEL AIR INDUCTION/1(.5-1-0)**

Covers the theory of operation and repair of turbochargers, superchargers, intercoolers, and various induction systems. Examines factors regulating engine performance failure, and procedures for reclaiming engine performance.

**DPM 222 HEAVY DUTY LIGHTING & INSTRUMENTATION/ 4(2-4-0)**

Provides students with diagnosis and repair of lighting systems found on Medium /Heavy duty trucks and equipment. Emphasis on inspecting and testing of electrical circuits, switches and interfacing through data bus with on board computers.

**DPM 240 H/D STEERING & SUSPENSION II/3(2-2-0)**

Emphasizes lecture and related lab in the diagnosis and service of Heavy Duty standard and air assisted steering along with chassis and frame alignment.

**EARLY CHILDHOOD EDUCATION**

**ECE 100 PRE-LICENSING TRAINING FOR FAMILY CHILD CARE PROVIDERS/1(1-0-0)**

Provides the educational training necessary to meet the hours and categories of training required by the Colorado Department of Human Services to open a licensed child care facility for children ages 2-12, with no more than two children under the age of two. Upon completion of 15 hours of training, in the areas listed below, the student will have met the academic training requirements of the Colorado Department of

Human Services, needed to open a licensed child care facility for children ages 2-12, with no more than two children under the age of two.

**ECE 101 INTRODUCTION TO EARLY CHILDHOOD EDUCATION/3(3-0-0)**

Provides an introduction to Early Childhood Education. Includes the eight key areas of professional knowledge: Child Growth and Development; Health, Nutrition and Safety; Developmentally Appropriate Practices; Guidance; Family and Community Relationships; Diversity; Professionalism; Administration and Supervision. Focuses on ages birth through age eight.

**ECE 102 INTRODUCTION TO EARLY CHILDHOOD LAB TECHNIQUES/3(0-6-0)**

Prerequisite or Co-requisite: ECE 101. Focuses on a classroom seminar and placement in a child care setting. The supervised placement provides the student with the opportunity to observe children, to practice appropriate interactions, and to develop effective guidance and management techniques. Addresses ages birth through age 8.

**ECE 103 GUIDANCE STRATEGIES FOR CHILDREN/3(3-0-0)**

Explores guidance theories, applications, goals, techniques and factors that influence expectations, classroom management issues, and prosocial skills. Addresses ages birth through age 8.

**ECE 104 CHILD STUDY/2(2-0-0)**

Focuses on child observation aimed at integrating the student's understanding of applied child development. Emphasizes children's development from birth through the elementary years.

**ECE 111 INFANT AND TODDLER THEORY & PRACTICE/3(3-0-0)**

Presents an overview of theories, applications (including observations) and issues pertinent to infant and toddler development in group and/or family settings. Includes state requirements for licensing, health, safety and nutrition issues.

**ECE 112 INTRO TO INFANT/TODDLER LAB TECHNIQUES/3(0-6-0)**

Prerequisite or Co-requisite: ECE 111. Includes a classroom seminar and placement in an infant and/or toddler setting. The supervised placement provides the student with the

opportunity to observe, to practice appropriate interactions and to develop effective guidance and nurturing techniques with infants and/or toddlers. Addresses ages prenatal - age 2.

**ECE 126 ART AND THE YOUNG CHILD/2 (2-0-0)**

Prepares students to plan and implement a comprehensive and developmentally appropriate art program for young children. Investigates the development of self-taught art techniques in young children.

**ECE 127 MUSIC/MOVEMENT FOR THE YOUNG CHILD/1(1-0-0)**

Focuses on the purposes of incorporating music and movement into the early childhood curriculum. Through active participation with hands-on experiences, students work with the concepts of age and developmental appropriateness when designing fun activities with both subjects.

**ECE 175 SPECIAL TOPICS/0-3 (3-0-0)**

Explores current topics, issues and activities related to one or more aspects of the early childhood profession.

**ECE 188 PRACTICUM: EARLY CHILDHOOD EDUCATION/1 (0-0-3)**

Provides students with field experience in early childhood programs.

**ECE 191 SCHOOL AGE THEORY AND PRACTICE/3(3-0-0)**

Emphasizes processes for planning and implementing developmentally appropriate environments, materials, and experiences in school age programs, working with children ages 6 – 12 years of age. Provides expression and problem-solving skills in school age children.

**ECE 192 SCHOOL AGE LAB TECHNIQUES/3(3-0-0)** Co-requisite: ECE 191.

Incorporates lab experience in before/after school, summer camp, or elementary school programs. Focuses on planning and implementing developmentally appropriate curriculum for school age children. Includes assisting the supervising teacher in all activities.

**ECE 205 NUTRITION, HEALTH AND SAFETY/3(3-0-0)**

Focuses on nutrition, health and safety as a key factor for optimal growth and development of

young children. Includes nutrient knowledge, menu planning, food program participation, health practices, management and safety, appropriate activities and communication with families. Addresses ages from prenatal through age 8.

**ECE 220 CURRICULUM DEVELOPMENT: METHODS AND TECHNIQUES/3(3-0-0)**

Provides an overview of early childhood curriculum development. Includes processes for planning and implementing developmentally appropriate environments, materials and experiences, and quality in early childhood programs.

**ECE 225 LANGUAGE AND COGNITION FOR THE YOUNG CHILD/3(3-0-0)**

Prerequisite: PSY 238 or Instructor permission. Examines theories of cognitive and language development as a framework for conceptualizing the way children acquire thinking skills. Includes observing, planning, facilitating, creative representation, and evaluating strategies within the context of play. Focuses on language, science, math, problem solving and logical thinking. Addresses ages birth through age 8.

**ECE 226 CREATIVITY AND THE YOUNG CHILD/3(3-0-0)**

Provides an emphasis on encouraging and supporting creative self expression and problem solving skills in children. Explores creative learning theories and research. Focuses on developmentally appropriate curriculum strategies in all developmental domains. Addresses ages birth through age 8.

**ECE 236 CHILD GROWTH/DEVELOPMENT LABORATORY/1(1-0-0)**

Covers the growth and development of the child from conception through the elementary school years. Emphasizes physical, cognitive, language, social and emotional domains and the concept of the whole child and how adults can provide a supportive environment. Addresses ages from prenatal through age 12.

**ECE 240 ADMINISTRATION OF EARLY CHILDHOOD CARE AND EDUCATION PROGRAMS/3(3-0-0)**

Examines Colorado's minimal licensing requirements, as well as optimal standards pertaining to the operation of programs for young children. Focuses on the director's administrative skills and role as a community

advocate for young children. Addresses ages birth through age 12.

**ECE 241 ADMINISTRATION: HUMAN RELATIONS FOR EARLY CHILDHOOD EDUCATION/3(3-0-0)**

Focuses on the human relations component of an early childhood professional's responsibilities. Includes director-staff relationships, staff development, leadership strategies, parent-professional partnerships, and community interaction.

**ECE 260 EXCEPTIONAL CHILD/3(3-0-0)**

Presents an overview of typical and atypical developmental progression. Includes planning techniques, learning strategies, legal requirements and accommodations and adaptations that are necessary in order to create an integrated classroom environment for a child with a wide range of exceptionalities. Focuses on ages birth through age 8.

**ECE 285 INDEPENDENT STUDY/1-3**

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

**ECE 288 PRACTICUM: EARLY CHILDHOOD EDUCATION/3 (0-0-9)**

Provides students with advanced field experience opportunities in early childhood education programs.

**ECONOMICS**

*Statewide Guaranteed Transfer courses will be designated with (SS1)*

**ECO 201 PRINCIPLES OF MACROECONOMICS/3(3-0-0)**

Focuses on the study of the American economy, stressing the interrelationships among household, business, and government sectors. Explores saving and investment decisions, unemployment, inflation, national income accounting, taxing and spending policies, the limits of the market and government, public choice theory, the Federal Reserve System, money and banking, and international trade. (SS1)

**ECO 202 PRINCIPLES OF MICROECONOMICS/3(3-0-0)**

Studies the firm, the nature of cost, and how these relate to the economy as a whole. Analyzes economic models of the consumer,

perfect competition, monopoly, oligopoly and monopolistic competition. Explores economic issues including market power, population growth, positive and negative externalities, income distribution, poverty and welfare, discrimination, and international economic interdependence.

(SS1)

**ECO 245 ENVIRONMENTAL ECONOMICS/3(3-0-0)**

Introduces students to contemporary environmental issues and policies meant to reduce environmental degradation. Includes market failures, analytical tools, government pollution reduction policies for air, water, and natural environments and their effectiveness. (SS1)

**EDUCATION**

**EDU 114 STUDENT BEHAVIOR MANAGEMENT FOR PARAEducATORS/3(3-0-0)**

Provides students knowledge in the areas of behavior modification; teaching appropriate behaviors; contingency contracts; observing and recording behavior; lunchroom supervision; and playground supervision.

**EDU 141 BASIC INSTRUCTIONAL TECHNIQUES FOR PARAEducATORS/3(3-0-0)**

Provides students with knowledge in the areas of delivering instruction; grouping students; reading with students; modifying instructional materials; using technology; and utilizing adaptive equipment.

**EDU 221 INTRODUCTION TO EDUCATION/3(3-0-0)**

Prerequisite: College level reading and writing as demonstrated on college level placement scores.

Corequisite: Field-Experience component, if not embedded in the class.

Focuses on the historical, social, political, philosophical, cultural and economic forces that shape the United States public school system. Includes current issues of educational reform, technology as it relates to education and considerations related to becoming a teacher in the state of Colorado. Special interest will be paid to the topic of diversity in the K-12 school system.

**EDU 240 TEACHING THE EXCEPTIONAL LEARNER/3(3-0-0)**

Focuses on the individual differences and modifications that are necessary in the educational practices of the exceptional learner. Incorporates an additional 10-hour 0-credit, pre-professional, supervised, field based experience. Together with this experience, a portfolio and field experience reflective journal is required of all students.

**ENGINEERING****EGG 101 ENGINEERING GRAPHICS I/3(3-0-0)**

Provides an application of engineering graphics as a communication form and a tool to solve three-dimensional design problems. Topics include: Orthographic, axonometric, and isometric projections, sections and auxiliary views, the geometry of lines, planes, and curved surfaces. This course is an introduction to PC-based, menu driven, 3D Computer Aided Design Systems, Spreadsheets, and Freehand Drawing.

**EGG 260 ENGINEERING SURVEYING I/3 (3-0-0)**

Focuses on plane surveying including pacing, chaining, horizontal and vertical distances, care and use of engineering levels, transits and theodolites. Emphasizes the proper survey note procedures, and surveying terminology. Covers various procedures in the calculation of bearings, azimuths and slope reduction.

**EGG 261 ENGINEERING SURVEY II/3(3-0-0)**

Introduces land surveying including legal terminology, riparian rights, legal descriptions, common law, statutory law, and the public land survey system. Addresses construction surveying including note keeping, construction etiquette, building layout, slope staking, and horizontal and vertical curves. Covers topographic surveying, x, y, z coordinates using total stations, and data collection.

**EMERGENCY MEDICAL SERVICES****EMS 115 FIRST RESPONDER/3**

Provides the student with core knowledge and skills to function in the capacity of a first responder arriving at the scene of an emergency, providing supportive care until advanced EMS help arrives.

**EMS 116 FIRST RESPONDER REFRESHER/2**

Prerequisite: Current First Responder Certification, and CPR card.

Provides the First Responder student with needed updates and review materials to renew and maintain the First Responder certificate.

**EMS 125 EMT BASIC/9**

Co-requisite: EMS 170.

Enables the student after successful completion of this course to take the EMT Certification Examination subject to the requirements of the Colorado Department of Health and Environment. Includes written and practical examinations. Student must be at least 18 years of age.

**EMS 126 EMT BASIC REFRESHER/3**

Prerequisite: Current CPR card, current or less than 36 months expired EMT Basic certification.

Provides required didactic and skills review for renewing EMT students. Accommodates the needs of the re-entry EMT student.

**EMS 130 EMT INTRAVENOUS THERAPY/2**

Prerequisite: Current EMT Basic certification, or proper licensure.

Focuses on cognitive and skill practice as required by Colorado Pre-hospital Care program for EMT Basic level IV approval. Examines criteria, procedures and techniques for ICV therapy, discusses fluid and electrolyte balance and principles and treatment for shock.

**EMS 150 PEDIATRIC EDUCATION FOR PREHOSPITAL PROFESSIONALS/1**

Prerequisite: EMT-Basic or approval from Program Coordinator.

Provides the student with core knowledge and skills necessary to provide emergency care to the pediatric patient.

**EMS 170 EMT BASIC CLINICAL/1**

Co-requisite: EMS 125 or EMS 126, depending on student status.

Provides the EMT student with the clinical experience required of initial and some renewal processes.

**EMS 175 Special Topics/1**

Provides the student with a vehicle to pursue in depth exploration of special topics of interest.

**EMS 203 EMT INTERMEDIATE I/6**

Prerequisite: Valid EMT-Basic, HEP B vaccination, Current CPR cards, high school grad or GED, CPT 80, Math.

Course provides preparatory information and is the first part of the EMT Intermediate program.

**EMS 205 EMT-INTERMEDIATE II/6**

Prerequisite: EMT Intermediate I.

Serves as the second course for EMT Intermediate certification.

**EMS 206 EMT INTERMEDIATE REFRESHER/3**

Prerequisite: Current EMT I certificate, or less than 36 months expired.

Meets or exceeds minimum requirements for renewing EMT Intermediate or EMT Intermediates in the re-entry program.

**EMS 213 PREHOSPITAL TRAUMA LIFE SUPPORT/1**

Prerequisite: EMT Basic or higher.

Provides basic and/or advanced trauma life support information and skill practice.

**EMS 214 BASIC TRAUMA LIFE SUPPORT/1**

Prerequisite: EMT Basic or higher.

Provides students with information and skill practice to treat trauma patients in the pre-hospital environment.

**EMS 270 CLINICAL: EMT INTERMEDIATE/3**

Prerequisite: EMS 203 and 205.

Co-requisite: EMS 205 as needed.

Provides the EMT-I student with the required field experiences as required by the Colorado Department of Health.

**EMS 275 SPECIAL TOPICS/1**

Provides the student with a vehicle to pursue in depth exploration of special topics of interest.

**ENGLISH**

*Statewide Guaranteed Transfer courses will be designated with (CO1 or CO2)*

**ENG 075 SPECIAL TOPICS – College Prep English 4(4-0-0)**

First semester of developmental English. Covers topics as needed by students, from sentence writing through paragraphs to essays. Students work individually through modules to master competencies required for entry into ENG 121.

**ENG 078 English Comp Recitation/1(1-0-0)**

Supplemental course offered concurrently with ENG 121 to allow students with Accuplacer Reading Comprehension scores between 85 and 94 or students from ENG 090 who haven't mastered all the material to begin ENG 121 without waiting for another semester. Students in ENG 121 may also self-place into ENG 078. Students complete a diagnostic assessment, work through modules in their areas of weakness, and receive support for ENG 121 assignments.

**ENG 115 TECHNICAL ENGLISH AND COMMUNICATION/3 (3-0-0)**

Focuses on the written and oral communication needs of students in vocational and technical fields. Enables the student to practice written, oral, reading, reasoning, and interpersonal communication skills in order to become successful(or to remain successful) in the workplace.

**ENG 121 ENGLISH COMPOSITION I/3(3-0-0)**

Prerequisite: Writing Assessment

Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a minimum of five compositions that stress analytical, evaluative, and persuasive/argumentative writing.(CO1).

**ENG 122 ENGLISH COMPOSITION II/3(3-0-0)**

Prerequisite: Successful completion of ENG 121.

Expands and refines the objectives of English Composition I. Emphasizes critical/logical thinking and reading, problem definition, research strategies, and writing analytical, evaluative, and/or persuasive papers that incorporate research. (CO2).

**ENG 131 TECHNICAL WRITING I/3(3-0-0)**

Prerequisite: Writing assessment or 'C' or better in ENG 100

Develops skills one can apply to a variety of technical documents. Focuses on principles for organizing, writing, and revising clear, readable documents for industry, business, and government.

**ENG 221 CREATIVE WRITING I/3(3-0-0)**

Prerequisite: Eng 121 or instructor's permission.

Teaches techniques for creative writing. Explores imaginative uses of language through creative genres (fiction, poetry, literary nonfiction) with emphasis on the student's own unique style, subject matter and needs.

### **ENVIRONMENTAL SCIENCE**

*Statewide Guaranteed Transfer courses will be designated with (SC1)*

#### **ENV 101 INTRODUCTION TO ENVIRONMENTAL SCIENCE/4(4-0-0)**

Introduces the student to the basic concepts of ecology and the relationship between environmental problems and biological systems. Includes discussions on biology, chemistry, geology, energy, natural resources, pollution and environmental protection. (SC1)

### **EQUINE MANAGEMENT**

#### **EQM 101 STABLE OPERATIONS I/1(1-0-0)**

Focuses on the routine daily care, grooming, feeding, stable sanitation, daily health, and feed records of horses.

#### **EQM 102 STABLE OPERATIONS II/1(1-0-0)**

Prerequisite: EQM 101

Builds on EQM 101 and continues focus on the routine daily care, grooming, feeding, stable sanitation, daily health, and feed records of horses.

#### **EQM 103 MANAGEMENT PRACTICUM I/3 (0-0-9)**

Enables students to gain practical experience in basic horse husbandry, basic horsemanship and stable management practices. Students are assigned a horse and practice day-to-day management at the college's equine facility. Through practical experience students develop professional characteristics in appearance, attitude, and work ethic.

#### **EQM 151 HORSE PRODUCTION/4(4-0-0)**

Focuses on the external anatomy, and internal anatomy and physiology including skeleton, joints, muscles, digestive system, urinary-excretory system, respiratory system, circulatory system, nervous system, skin and hair. Covers the elements of conditioning these systems for various levels of training.

#### **EQM 153 EQUINE EVALUATION/3(3-0-0)**

Focuses on the evaluation of a horse's conformation and performance. Covers terms

used in judging horse conformation, evaluation of a horse's conformation and structural soundness, and evaluating performance horses in various classes.

#### **EQM 158 EQUINE REPRODUCTION/2(2-0-0)**

Introduces horse reproduction and the various breeding and management practices found on breeding farms. Covers physiology of the mare and stallion reproductive systems, care of the stallion and the mare, mare heat detection, breeding, care of pregnant mares, foaling, problems in the foal, and care of the foal and yearling.

#### **EQM 203 MANAGEMENT PRACTICUM II/3 (0-0-9)**

Builds on EQM 103 by enabling students to gain practical experience in horse husbandry, horsemanship and stable management practices. Students are assigned a horse and practice day-to-day management at the college's equine facility. Through practical experience students develop professional characteristics in appearance, attitude, and work ethic.

#### **EQM 215 LAMENESS IN HORSES/3(3-0-0)**

Expands on basic equine anatomy with emphasis on normal function of front & rear legs & feet including methods of evaluating deviations from normal function presented as lameness in horses. Also discusses response to injury by the body, forms of therapy and conditioning techniques for returning horses to work after injury. PREREQUISITE ASC 102 or Permission of Instructor.

#### **EQM 251 EQUINE MANAGEMENT/3(3-0-0)**

Covers practical aspects of horse and stable management, feeds and nutrition, diseases and wounds, unsoundness and blemishes, castration, immunization, worming, health care, care of feet and legs, organizing stable routine and activities, stable records and stable construction. Focuses on marketing methods and promotional advertising methods for stables, trainers and horses.

#### **EQM 280 EQUINE INTERNSHIP/7-10 (0-0-(21-30))**

Students are employed or work at home on an equine operation. The work experience must cover a minimum of 320 hours with the student involved in all facets of this operation.

## **EQUINE TRAINING**

### **EQT 200 FUNDAMENTALS OF RIDING INSTRUCTION/3(3-0-0)**

Develops the basic skills needed to become effective teachers of riding. Through classroom and arena assignments, students have the opportunity to gain confidence, learn methods of organization, develop lesson plans and practice teaching techniques. Students learn techniques in teaching basic skills for western horsemanship.

### **EQT 253 APPLIED HORSEMANSHIP/5(5-0-0)**

Provides the student intermediate to advanced horsemanship and maneuvers, with emphasis on individual work.

## **ESTHETICIAN**

Student must be 16 years of age and have appropriate Accuplacer scores.

### **EST 101 INTRODUCTION TO STERILIZATION, SANITATION & SAFETY/2 (2-0-0)**

Introduces the various methods of sterilization, sanitation and safety as used today in the industry. Classroom study of bacteriology and the terminology dealing with sterilization and sanitation.

### **EST 105 INTRODUCTION TO ELECTRICITY, CHEMISTRY & LIGHT THERAPY/4(4-0-0)**

Introduces the various forms of electricity as related to estheticians. Chemistry as related to theory, products and knowledge. Light therapy theory and practical application as used in the industry.

### **EST 106 INTRODUCTION TO MASSAGE, SKIN CARE & MAKEUP/3(1-4-0)**

Provides a basic understanding of massage manipulations and the study of skin in both theory and practical applications. Benefits derived from proper massage and a good skin care routine. Training is conducted in a classroom or lab setting using mannequins or models.

### **EST 110 INTRODUCTION TO FACIALS AND SKIN CARE/3(3-0-0)**

Provides a basic understanding of massage manipulations when providing facials and the study of skin in both theory and practical

applications. Benefits derived from proper facial and good skin care routines. Training is conducted in a classroom or lab setting using mannequins or models.

### **EST 111 INTERMEDIATE FACIALS & SKIN CARE/2(1-2-0)**

Covers theory and practical application pertaining to anatomy, skin disorders, skin types and facial shapes. Students help patrons to select the proper skin care treatment. Practical and theory application can be done in specialized classes or supervised salon (clinical) setting using models or customer service.

### **EST 151 INTERMEDIATE STERILIZATION, SANITATION & SAFETY/1(0-0-3)**

Prerequisite: EST 101; Presents theory and the daily utilization and practice of the proper methods of sterilization, sanitation and safety. Procedures as related to all phases of the industry. Training is provided in a supervised (clinical) setting.

### **EST 155 INTERMEDIATE ELECTRICITY, CHEMISTRY & LIGHT THERAPY/4(2-4-0)**

Prerequisite: EST 105  
Covers the study of Electricity, Chemistry and Light Therapy in theory and practical applications. To enable students to analyze and improve the condition of the skin using safe and proper procedures.

### **EST 156 INTERMEDIATE MASSAGE, SKIN CARE & MAKEUP/3(1-0-6)**

Prerequisite: EST 106  
Covers theory and practical application pertaining to anatomy, skin disorders, skin types and facial shapes. Students help patrons select proper skin care treatment and make-up. Practical and theory application can be done in specialized classes or supervised salon (clinical) setting using models or customer service.

### **EST 201 ADVANCED STERILIZATION, SANITATION & SAFETY/1(0-0-3)**

Prerequisite: EST 151  
Provides advanced training on sterilization, sanitation and safety is incorporated in a supervised salon (clinical) setting. Advanced techniques will ready the student for employment. Student preparation for the State Board Licensing Examination in theory and practical procedures for sterilization, sanitation and safety.

**EST 205 ADVANCED ELECTRICITY, CHEMISTRY & LIGHT THERAPY/4(0-0-12)**

Prerequisite: EST 155

Provides advanced training in Electricity, Chemistry and Light Therapy is incorporated in a supervised salon (clinical) setting. Advanced techniques will ready the student for employment. Students will prepare for State Board Licensing Examination pertaining to above areas.

**EST 206 ADVANCED MASSAGE, SKIN CARE & MAKEUP/3(0-0-9)**

Prerequisite: EST 156

Provides the student with advanced techniques in massage, skin care, make-up, lash-brow tinting and waxing. Theory and practical procedures ready the student for employment. Instruction is provided in specialized classes or in a supervised salon (clinical) setting. Student preparation for State Board Licensing Examination.

**EST 210 ADVANCED MASSAGE & SKIN CARE/2(1-2-0)**

Provides the student with advanced techniques in massage, skin care, and lash/brow tinting. Theory and practical procedures ready the student for employment. Instruction is provided in specialized classes or in a supervised salon (clinical) setting. Student preparation for State Board Licensing Examination.

**EST 211 FACIAL MAKE-UP/1(1-0-0)**

Provides instruction on cosmetics and their functions. The importance of color theory, facial types and skin tones as they relate to facial makeup. Instruction from the basic makeup application to the corrective makeup procedure is taught. Disinfection and sanitation is taught as it pertains to all aspects of makeup.

**EST 212 HAIR REMOVAL/3(3-0-0)**

Provides in-depth study and practice of hair removal and the practice of patron protection and safety. Training for general waxing and body waxing procedures are provided. Demonstration of disinfection and sanitation as it pertains to Colorado rules and regulations will be practiced.

**EST 230 ESTHETICIAN PREPARATION FOR STATE BOARDS/1(0-2-0)**

Provides preparation for State Boards allows the student the opportunity to gain knowledge in the

practical examination required by the Colorado Board of Barber/Cosmetology.

**EST 275 SPECIAL TOPICS/0-12**

Provides students with a vehicle to pursue in depth exploration of special topics of interest.

**EST 278 ADVANCED ESTHETICIAN STUDIES/0-12**

Student must have 550 contact hours in a state-approved esthetician program.

Allows advanced training in all course areas and allows student training for State Board of Cosmetology Licensing Examination. Hours will be arranged and credits will vary.

**EST 280 INTERNSHIP/0-12**

This course provides students with the opportunity to supplement coursework with practical work experience related to their educational programs. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor.

**EST 285 INDEPENDENT STUDY/0-12**

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

**EST 288 ESTHETICIAN PRACTICUM/0-12**

Prerequisite: EST 201, EST 205, EST 206; Allows students to continue their practice in the following courses: Sterilization, Sanitation, Safety, Electricity, Chemistry, Light Therapy, Massage, Skin Care, Make-up, and Salon Management.

**EST 290 PROFESSIONAL DEVELOPMENT/CONTINUING EDUCATION/0-12**

Provides students with a vehicle to pursue in depth exploration of special topics of interest.

**FARRIER SCIENCE****FAS 100 FARRIER SCIENCE I/4(4-0-0)**

Introduces horses from evolution to the present with emphasis on existing breeds and shoeing requirements. Course also covers behavior patterns of horses, proper handling and safety; need for and frequency of shoeing, anatomy and physiology of the lower leg, angles, hoof preparation, shoe selection, shaping, and basic techniques.

**FAS 110 FARRIER SCIENCE II/4(4-0-0)**

Focuses on corrective shoeing for pleasure and racehorses. Emphasizes anatomy of horses, physiology of the lower leg, preliminary examination, and natural angles of the legs, hoof preparation, and normal shoeing.

**FAS 120 FARRIER SCIENCE III/4(4-0-0)**

Introduces special purpose shoeing for racehorses, trail horses, etc. Examines corrective shoeing, shoeing requirements for various breeds, special purpose plating, special equipment, and public relations.

**FINANCE****FIN 101 INTRODUCTION TO FINANCE/3(3-0-0)**

Provides an in-depth study of the US monetary system, the role of banks as financial intermediaries, and the types of financing. Includes international financial markets and international financial instruments used in importing and exporting, analysis of stock and bond values, the role and process of the stock and bond markets and the derivative marketplace. Enables the student to produce a cash budget, analyze financial statements including all financial ratios used in credit analysis, and determine capital requirements and financing arrangements.

**FIN 105 PRINCIPLES OF BANKING/3(3-0-0)**

Explores nearly every aspect of banking as a solid foundation for any career in the financial services industry. Just as the industry is constantly changing, this course is continually being revised to provide specific up-to-date information.

**FIN 201 PRINCIPLES OF FINANCE/3(3-0-0)**

Provides factual knowledge of financial institutions and the monetary system used in the United States in relationship to the global economy. Examines tools and techniques such as capital budgeting, time value of money, analysis of financial statements, cost of capital, and risk analysis to analyze business decisions, plan and determine project and firm value, and evaluate sources of financing.

**FIN 226 MONEY AND BANKING/3(3-0-0)**

Presents a fundamental treatment of how money functions in the U.S. and world economies. Includes the concept of money supply, the Federal Reserve System, the role banks play as

a money creator and participant in the nation's payment mechanism. Examines how the various types of financial institutions operate, the working of monetary and fiscal policies, and the role of a Central Bank and International Banking.

**FIN 245 LAW AND BANKING APPLICATIONS/2(2-0-0)**

Introduces the laws pertaining to secured transactions, letters of credit, and the bank collection process. Enables the student to explain the concept of negotiability, analyze the concept of holder-in-due-course status, define and explain the nature of the letter of credit, describe the nature of primary and secondary contractual liability on an instrument, identify the issues related to secured transactions and discuss the legal issues related to bank collections and check losses.

**FIN 285 INDEPENDENT STUDY/0-12**

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

**FRENCH**

*Statewide Guaranteed Transfer courses will be designated with (AH4)*

**FRE 111 FRENCH LANGUAGE I/5(3-4-0)**

Begins a sequence dealing with the development of functional proficiency in listening, speaking, reading and writing the French language.

**FRE 112 FRENCH LANGUAGE II/5(3-4-0)**

Prerequisite: FRE 111 or instructor permission. Continues French I in the development of functional proficiency in listening, speaking, reading and writing the French language.

**FRE 211 FRENCH LANGUAGE III/3(2-2-0)**

Prerequisite: FRE 112 or instructor permission. Continues French I and II in the development of increased functional proficiency in listening, speaking, reading and writing the French language. Note: The order of the topics and the methodology will vary according to individual texts and instructors. (AH4).

**FRE 212 FRENCH LANGUAGE IV/3(2-2-0)**

Prerequisite: FRE 211 or instructor permission. Continues French I, II and III in the development of increased functional proficiency in listening, speaking, reading and writing the French language. Note: The order of the topics and the

methodology will vary according to individual texts and instructors. (AH4)

### **FIRE SCIENCE TECHNOLOGY**

#### **FST 100 FIREFIGHTER I/9(5-8-0)**

Addresses the requirements necessary to perform at the first level of progression as identified in National Fire Protection Association (NFPA) 1001, Firefighter Professional Qualifications. This is a lecture and lab course for meeting the NFPA 1001, level I, standard using IFSTA Essentials.

#### **FST 102 INTRODUCTION TO FIRE SCIENCE AND SUPPRESSION/3(3-0-0)**

Introduces the fire service organization and operation from past to present operations. Includes operation and organization of federal, state, local and private protection forces. Emphasizes extinguishing methods and equipment, special extinguishing agents, and special hazard considerations. Serves as a prerequisite for students having no previous fire suppression training or experience.

#### **FST 152 WILDLAND FIREFIGHTING/3(3-0-0)**

Introduces a basic understanding of wildland fire and the strategies and tactics involved during suppression operations. Includes fire line safety, emphasizing the wildland fire orders and watch out situations. Students receive training qualifying them as Certified Wildland Firefighters under the Incident Command System, recognized by the National Wildfire Coordinating Group. Covers fire behavior, fire weather, fuel types, safety equipment and guidelines, incident size up, determining resource needs, aircraft identification and capabilities, direct vs. indirect attack, burn-out, backfiring and map reading.

#### **FST 260 INTERMEDIATE FIRE BEHAVIOR/2(2-0-0)**

Analyzes the effects of fuels, weather, topography and fire behavior on the wildland fire environment. Acquaints prospective fire line supervisors in wildland fire behavior for effective and safe fire management operations

### **GENERAL EQUIVALENCY DIPLOMA**

#### **GED 010 PRE-GED PREPARATION/1-12**

Presents material for the student who needs review before doing GED preparation. Diagnostic tests determine skill level; help is available in writing skills, reading, and math.

#### **GED 011 GED PREPARATION/1-12**

Prerequisite: A minimum score of 35 on individual GED Pre-tests or GED 010. Presents material for students who need to prepare for the GED tests: Language Arts, Writing; Language Arts, Reading; Mathematics; Science; and Social Studies.

### **GEOGRAPHY**

*Statewide Guaranteed Transfer courses will be designated with (SS2)*

#### **GEO 105 WORLD REGIONAL GEOGRAPHY/3(3-0-0)**

Facilitates an understanding of spatial relationships between and among the geographic regions of the world. Includes demographic and cultural (political, economic, and historic) forces related to the physical environments of selected regions. Focuses on analysis of interrelationships between developed and developing regions, and the interactions between human societies and natural environments. (SS2)

#### **GEO 106 HUMAN GEOGRAPHY/3(3-0-0)**

Introduces geographic perspectives and methods with applications to the study of human activities. Emphasizes the distribution of humans, adjustments to the natural environment, and land use practices. (SS2)

### **GEOLOGY**

*Statewide Guaranteed Transfer courses will be designated with (SC1)*

#### **GEY 111 PHYSICAL GEOLOGY W/LAB/4(3-2-0)**

Studies the materials of the earth, its structure, surface features and the geologic processes involved in its development. This course includes laboratory experience. (SC1)

#### **GEY 121 HISTORICAL GEOLOGY W/LAB/4(3-2-0)** Prerequisite: GEY 111 or permission of instructor.

Studies the physical and biological development of the earth through the vast span of geologic time. Emphasizes the investigation and interpretation of sedimentary rocks, the record of ancient environments, fossil life forms, and physical events, all within the framework of shifting crystal plates. Course includes laboratory experience. (SC1)

**GEY 208 GEOLOGY FIELD TRIP/3**

Prerequisite: Permission of instructor.  
Involves in-depth field studies into the geology of specific regions both within and outside Colorado. Trips lasting from one to several days length to study the area constitute the major activity of the course. The specific area of investigation is indicated in the schedule of classes each time the course is offered.

**GEOGRAPHIC INFORMATION SYSTEMS****GIS 101 GEOGRAPHIC INFORMATION SYSTEMS/3(3-0-0)**

Surveys the development and operation of automated geographic information systems. Focuses on the fundamentals of using computers to draw maps. Incorporates study of cartographic fundamentals such as map projections, map scales, selective display of data on maps, and various computer software applications in GIS.

**HISTORY**

*Statewide Guaranteed Transfer courses will be designated with (HI1)*

**HIS 101 HISTORY OF WESTERN CIVILIZATION I/3(3-0-0)**

Explores a number of events, peoples, groups, ideas, institutions, and trends that have shaped Western Civilization from the prehistoric era to 1650. Reflects the multiple perspectives of gender, class, religion, and ethnic groups. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in this discipline. (HI1)

**HIS 102 HISTORY OF WESTERN CIVILIZATION II/3(3-0-0)**

Explores a number of events, peoples, groups, ideas, institutions, and trends that have shaped Western Civilization from 1650 to the present. Reflects the multiple perspectives of gender, class, religion, and ethnic groups. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in this discipline. (HI1)

**HIS 111 WORLD CIVILIZATIONS I/3(3-0-0)**

Enables the student to view history up to 1500 CE in a broad global sense. Focuses on the common denominators among all people. This approach goes beyond political borders, to provide a better appreciation for different cultures. (HI1)

**HIS 112 WORLD CIVILIZATIONS II/3(3-0-0)**

Enables students to view history post 1500 CE in a broad global sense. Focuses on the common denominators among all people. This approach goes beyond political borders to provide a better appreciation for different cultures. (HI1)

**HIS 215 WOMEN IN U.S. HISTORY/3(3-0-0)**

Examines women's changing roles in American history from the pre-colonial native population to the present. Emphasizes the nature of women's work and the participation of women in the family, political, religious, and cultural activities and in social reform movements. (HI1)

**HIS 201 U.S. HISTORY I/3(3-0-0)**

Explores events, trends, peoples, groups, cultures, ideas, and institutions in North America and United States history, including the multiple perspectives of gender, class, and ethnicity, between the period when Native American Indians were the sole inhabitants of North America, and the American Civil War. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in the discipline. (HI1)

**HIS 202 U.S. HISTORY II/3(3-0-0)**

Explores events, trends, peoples, groups, cultures, ideas, and institutions in United States History, including the multiple perspectives of gender, class, and ethnicity, between the period of the American Civil War and the present. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in the discipline. (HI1)

**HIS 208 AMERICAN INDIAN HISTORY/3(3-0-0)**

Analyzes historical and socio-cultural change for Native Americans from pre-colonial America to the present, emphasizing those processes and relations with non-Native Americans which have contributed to the current conditions. (HI1)

**HIS 225 COLORADO HISTORY/3(3-0-0)**

Presents the story of the people, society, and cultures of Colorado from its earliest Native Americans, through the Spanish influx, the explorers, the fur traders and mountain men, the gold rush, railroad builders, the cattlemen and farmers, the silver boom, the tourists, and the modern state. (HI1)

**HIS 235 HISTORY OF THE AMERICAN WEST/3(3-0-0)**

Traces the history of the American West, from the Native American cultures and the frontier experiences of America's earliest, eastern settlers, through the Trans-Mississippi West, across the great exploratory and wagon trails, and up to the present West, be it urban, ranching, reservation, resource management, or industrial. Emphasizes the north and central parts of the West.

**HIS 236 US HISTORY SINCE 1945/3(3-0-0)**

Focuses on the major political, economic, social, and cultural developments that have shaped modern America from 1945 to the present. (HI1)

**HIS 244 HISTORY OF LATIN AMERICA/3 (3-0-0)**

Focuses on the major political, economic, social, and cultural influences that have shaped Latin America from pre-European conquest to the present. Emphasizes the early history of Latin America but connects it to the present. (HI1)

**HIS 247 20<sup>TH</sup> CENTURY WORLD HISTORY 3(3-0-0)**

Investigates the major political, social, and economic developments, international relationships, scientific breakthroughs, and cultural trends that have shaped the various global regions and nation-states from 1900 to the present. Emphasizes the interactions of global regions and nation-states. (HI1)

**HIS 255 THE MIDDLE AGES/3(3-0-0)**

Focuses on political, social, cultural, economic and intellectual developments in Europe, Byzantium and the Islamic world from the collapse of Rome through the Renaissance, approximately A.D. 400-1400. (HI1)

**HOLISTIC HEALTH PROFESSIONAL****HHP 100 COMPLEMENTARY HEALING METHODS/1(1-0-0)**

Explores some of the more widely used alternative/ complimentary healing methods. Expands the student's health horizons and enables the student to converse in a knowledgeable manner with patients and practitioners.

**HHP 108 AROMATHERAPY/1 (1-0-0)**

While much ancient wisdom on the use of essential oils in health maintenance and the

healing of disease has been lost, some tantalizing data from the ancient Egyptians exists and has been verified by modern scientific research. Explores the pharmacokinetics and neurophysiology of essential oils, looking into their origins, extraction, storage, and usage. Enables the student to observe a large number of essential oil remedies and their applications

**HHP 111 HERBOLOGY I/1(1-0-0)**

Explores the pharmacokinetics and composition of herbs and their effect on the body systems. Focuses on the habitat, harvesting, storage and usage of a select group of herbs. The use of herbs in health maintenance and the healing of disease predates written history. Herbs have been found by archeologists in Paleolithic burials and throughout literature on the ancient Chinese and Egyptians verified by modern scientific research.

**HHP 166 INTRODUCTION TO REFLEXOLOGY/1(1-0-0)**

Teaches the student foot anatomy, basic hand stroke and foot reflex points.

**HEALTH PROFESSIONAL****HPR 102 CPR FOR PROFESSIONALS: (LIST CERTIFICATION)/0.5**

Meets the requirement for American Red Cross Professional Rescuer CPR or American Heart Association Basic Life Support for those who work in Emergency Services, Health Care and other professional areas. Material presented in the course is basic patient assessment, basic airway management, rescue breathing, and CPR for infant, children and adult patients.

**HPR 103 CPR FOR PROFESSIONALS**

**RENEWAL/0.5** Prerequisite: Current healthcare provider CPR card. Provides opportunity for currently certified CPR providers to renew certificates.

**HPR 108 DIETARY NUTRITION/1(1-0-0)**

Studies the basic principles in clinical practice involved in the assistance of health care. The course will cover factors which influence the nutritional status of individuals, methods of nutritional assessment and support, and diet modification for specific disease states.

**HPR 120 ACLS/1(1-0-0)**

Prerequisite: Current basic life support health care provider C certification.

Presents the required material for ACLS completion. It will cover arrhythmias, medications, therapeutic modalities for life threatening arrhythmias, airway management, and other treatment modalities used in cardiac and respiratory arrest.

**HPR 121 ACLS RECERTIFICATION/5(.5-0-0)**

Prerequisite: ACLS completion with current card. Presents the required material for ACLS recertification. It will cover rhythm recognition, cardiac drugs, cardiac monitors, and case based scenarios.

**HPR 130 PEDIATRIC ADVANCED LIFE SUPPORT/1** Prerequisite: Current CPR card—must include child and infant CPR.

Provides students the needed information and skills as required by health care agencies for pediatric emergencies.

**HPR 155 INTRODUCTION TO HOME HEALTH NURSING CARE/3(3-0-0)**

Introduces home health nursing from the standpoint of services provided by these agencies. Funding for home health care, community support services, role of the nurse and family, as well as documentation will be explored.

**HPR 175 INTRODUCTION TO THE DENTAL HYGIENE PROFESSION/1(1-0-0)**

An introduction to fundamental concepts and practices related to dentistry and dental hygiene in particular, and as they relate to other healthcare professions. Topics include professionalism, the history of dental hygiene, basic oral anatomy, and the dental specialties. Two hours of observation in CNCC's Dental Hygiene clinic will be required. (This course is not required for entry into the Dental Hygiene Program, but is strongly recommended.)

**HPR 178 SEMINAR: MEDICAL TERMINOLOGY/ 1-4**

Introduces the student to the structure of medical terms with emphasis on combining and using the most common prefixes, roots and suffixes. Includes terms related to clinical laboratory, diagnostic imaging, nuclear medicine and oncology, as well as major body systems. Classroom structure provides accepted pronunciation of terms and relative use in the healthcare setting.

**HPR 175 National Boards Preparation/1 (1-0-0)** Prerequisite: Enrollment in the Dental Hygiene Program.

Provides formal review sessions for second year dental hygiene students preparing to sit for the National Board Examination in March

**HPR 180 PRE-DENTAL HYGIENE INTERNSHIP/2(0-0-6)**

Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor.

**HPR 190 BASIC EKG INTERPRETATION/2**

Provides instruction for interpretation of EKG strips, anatomy and physiology of the heart, using three-lead monitoring as a guide. Twelve-lead EKG may be discussed.

**HPR 217 KINESIOLOGY/4(3-2-0)**

Prerequisite: BIO 201 or instructor permission. Focuses on mechanical principles of kinematics, kinetics, muscle physiology, and neurophysiology and the interaction to produce function. Joint and muscle structure and function with application is a main focus.

**HORSE TRAINING MANAGEMENT**

**HTM 152 BASIC CARE AND TRAINING/7 (7-0-0)**

Provides each student with one horse to start and train in the following: show in halter; grooming properly; biting and driving; standing still while being saddled, bridled and mounted; working on the rail; taking proper leads; backing and loping circles, stopping, two-tracking; and opening gates. The students will also receive instruction in basic hoof care and proper stable management. This course will end with the student participating in the HTM Semester Horse Show.

**HTM 155 FOAL TRAINING/1(1-0-0)**

Provides each student with one or more weanlings to train in the following objectives; show at halter; load in trailer; and pick up all four feet. This course will last two weeks.

**HTM 253 SPECIALIZED TRAINING/7(7-0-0)**

Provides each student with one or more horses to train. The first part of the semester will deal

with establishing the foundation on the horses. The remainder of the semester will be utilized in building the specialized skills. This section will end with the student participating in the HTM Semester Horse Show.

### **HTM 260 INTRODUCTION TO INTERNSHIP/1(1-0-0)**

Acquaints students with employer/employee relations, public relations, and expectations of internship prior to leaving campus.

### **HTM 280 INTERNSHIP/5(5-0-0)**

Provides each student with placement in the horse industry under a prominent person who specializes in the student's main area of interest for the spring semester. At the end of the semester, the student will return to campus for a seminar and analysis of the internship. Students must maintain a 2.5 GPA in HTM courses and 2.0 GPA in related courses to be placed on internship.

### **HUMANITIES**

*Statewide Guaranteed Transfer courses will be designated with (AH2)*

### **HUM 103 INTRODUCTION TO FILM ART/3(3-0-0)**

Studies the relationships among film's stylistic systems, narrative systems and audience reception. Students view, discuss and critically analyze a variety of films which represent key historical and aesthetic periods as well as a variety of genres and themes. The course incorporates the vocabulary stylistic systems (for instance, cinematography, editing and art direction) and narrative systems (for instance, story structure and character motivation) as both relate to the kinds of meanings a film conveys.

### **HUM 115 World Mythology/3(3-0-0)**

Introduces students to the mythologies of various cultures. Common themes are illustrated and an interdisciplinary approach is used incorporating some of the following: religion, philosophy, art history, theater, literature, music, cultural studies, and history.(AH2)

### **HUM 121 HUMANITIES: EARLY CIVILIZATIONS I/3(3-0-0)**

Introduces students to the history of ideas that have defined cultures through a study of the visual arts, literature, drama, music, and philosophy. It emphasizes connections among the arts, values, and diverse cultures, including

European and non-European, from the Ancient world to 1000 C.E. (AH2)

### **HUM 122 OF HUMANITIES: MEDIEVAL - MODERN/3(3-0-0)**

Examines written texts, visual arts and musical compositions to analyze and reflect the evolution and confluence of cultures in Europe, Asia and the Americas from 800 C.E. to 1750 C.E. Any two of the three Survey of Humanities courses equal a sequence.(AH2)

### **HUM 123 HUMANITIES: THE MODERN WORLD/3(3-0-0)**

Examines the cultures of the 17th through the 20th centuries by focusing on the interrelationships of the arts, ideas, and history. Considers the influences of industrialism, scientific development and non-European peoples.(AH2).

### **HUM 163 FILM CRITICISM/3(3-0-0)**

Considers different approaches to film criticism, including the journalist, humanist, auteurist, genre, social science, historical, and ideological/theoretical approaches. Students will view and analyze films applying each of the critical approaches through class discussion and other assignments.

### **HEALTH AND WELLNESS**

### **HWE 100 HUMAN NUTRITION/3(3-0-0)**

Introduces basic principles of nutrition with emphasis on personal nutrition. Satisfies nutrition requirement of students entering health care professions.

### **HWE 103 COMMUNITY FIRST AID AND CPR/1**

Uses demonstration videos, instructor led practice and workbook/textbook study to prepare for certification in Adult/Child/Infant CPR and Community First Aid.

### **HWE 104 CPR INSTRUCTOR COURSE/1**

Prerequisite: Current HCP CPR card. Provides information for the potential CPR instructor. Course requirements, renewal information and current content are discussed. Practice teaching is included in course.

### **HWE 105 CPR INSTRUCTOR RENEWAL/0.5**

Prerequisite: Current CPR instructor card. Provides update information and review of CPR skills for the CPR instructor.

**HWE 111 HEALTH AND FITNESS/3(3-0-0)**

Studies health and fitness in the U.S. today. The course will look at personal health issues, managing stress, nutrition and healthy life styles.

**HWE 129 WILDERNESS FIRST RESPONDER/4(4-0-0)**

Provides the student with those skills and emergency medical care techniques used by guides, trip leaders and others providing primary care in backcountry setting. The student will be able to respond correctly to those medical and trauma situations commonly encountered when entry into the EMS system is delayed or unlikely.

**HWE 175 SPECIAL TOPICS/0.5-6**

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

**JOURNALISM**

*Statewide Guaranteed Transfer courses will be designated with (SS3)*

**JOU 105 INTRODUCTION TO MASS MEDIA/3(3-0-0)**

Places the mass media in an historical and cultural perspective, considering the validity, integrity and influence of the media in a democracy. (SS3)

**JOU 106 FUNDAMENTALS OF REPORTING/3(3-0-0)**

Introduces news writing, reporting and interviewing with an emphasis on clarity, accuracy, completeness, timeliness and fairness.

**JOU 175 SPECIAL TOPICS/0.5-6**

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

**JOU 180 JOURNALISM INTERNSHIP I/2(0-0-6)**

Student reporters will compile information through interviews and research to write regular news, feature, opinion, and entertainment stories for the Spartan Times, CNCC's weekly student newspaper. Photographers will create media to complement reporter stories and convey information visually. Reporters and photographers will also help create and post timely information online. Regular training via workshops and guest speakers is required. See position job descriptions for additional duties.

**JOU 221 NEWSPAPER DESIGN I/3(3-0-0)**

Prerequisite: Level placement scores ENG 121 and REA 090.

Provides students with experience in news writing, editing, design, layout and advertising for newspaper production. Students may be required to work on the college newspaper or other news-oriented publications.

**JOU 280 JOURNALISM INTERNSHIP II/3(0-0-9)**

Core staff positions vary in their job responsibilities, though all are essential to producing the Spartan Times each week. The Business Manager takes care of advertising, billing, business contacts, and financial tracking. The Art Editor works with and trains photographers, as well as using graphic tools to create ads and edit photos. The Layout-Design Editor creates the issue's design each week using InDesign. The Editor-in-Chief edits incoming pieces, trains reporters, and oversees other core staff positions. A Web Maintenance/Design position may also be added in Fall 2009. All positions require regular meetings and training, as well as some reporting and photography as needed.

**Law Enforcement****LEA 106 ARREST CONTROL TECHNIQUES/3(3-0-0)**

Covers the skills, knowledge and abilities necessary to effectively maintain control of a suspect when making an arrest. Emphasizes the continuum of force and de-escalation of force.

**LEA 108 FIREARMS/3 (3-0-0)**

Discusses the skills, knowledge and abilities necessary to safely use police firearms. Students will demonstrate skills by firing weapons on a firing range. The student will demonstrate basic safety techniques and will explain the firearms role within the continuum of force.

**LITERATURE**

*Statewide Guaranteed Transfer courses will be designated with (AH2)*

**LIT 115 INTRODUCTION TO LITERATURE/3(3-0-0)**

Introduces students to fiction, poetry, and drama. Emphasizes active and responsive reading. (AH2)

**LIT 201 MASTERPIECES OF LITERATURE I/3(3-0-0)**

Examines significant writings in world literature from the ancients through the Renaissance. Emphasizes careful readings and understanding of the works and their cultural backgrounds. (AH2)

**LIT 202 MASTERPIECES OF LITERATURE II/3(3-0-0)**

Examines significant writings in world literature from the seventeenth century to the present. Emphasizes careful reading and understanding of the works and their cultural backgrounds. (AH2)

**LIT 205 ETHNIC LITERATURE/3(3-0-0)**

Focuses on significant texts by ethnic Americans including African-American, Native American, Latino/a, and Asian Americans. Emphasizes careful reading and understanding of the cultural and literary elements of the works. (AH2)

**LIT 211 AMERICAN LITERATURE TO CIVIL WAR/3(3-0-0)**

Provides an overview of American literature from the Native American through the nineteenth century Romantics. It explores ideas, historical and social contexts, themes and literary characteristics of works in various genres by major writers. (AH2)

**LIT 212 AMERICAN LITERATURE AFTER THE CIVIL WAR/3(3-0-0)**

Provides an overview of American literature from the mid-nineteenth century to the present. It explores ideas, historical and social contexts, themes and literary characteristics of works in various genres by major writers. (AH2)

**LIT 221 BRITISH LITERATURE TO 1770/3(3-0-0)**

Provides an overview of British literature from the Anglo-Saxon period through the 17th century. It explores ideas, historical and social contexts, themes and literary characteristics of works in various genres by major writers. (AH2).

**LIT 222 BRITISH LITERATURE SINCE 1770/3(3-0-0)**

Provides is an overview of British literature from the 18th century to the present. It explores ideas, historical and social contexts, themes and literary characteristics of works in various genres by major writers. (AH2)

**LIT 225 INTRODUCTION TO SHAKESPEARE/3(3-0-0)**

Explores a selection of works by William Shakespeare. It focuses on careful reading and interpretation of the plays and poems, includes pertinent information about Elizabethan England, and examines formal as well as thematic elements of the selected works. (AH2)

**LIT 245 LITERATURE OF THE AMERICAN WEST/3(3-0-0)**

Examines works in various genres by writers of the American West. It investigates the dominant themes and social and historical backgrounds.

**LIT 255 CHILDREN'S LITERATURE/3(3-0-0)**

Evaluates the criteria for selecting appropriate literature for children through exploration of genres, age levels, values taught through literature, and the literary and artistic quality of various texts.

**LIT 269 POPULAR LITERATURE AND CULTURE/3(3-0-0)**

Explores special interests in literature, such as Detective Fiction and Science Fiction.

**MANAGEMENT****MAN 102 BUSINESS ETHICS AND VALUES/1(1-0-0)**

Discusses behavior and identifies what is ethical and appropriate behavior and what is not. This course will identify the role of integrity, character, honesty, self-control, self-sacrifice, and core values in developing ethical and effective behavior in the workplace.

**MAN 117 TIME MANAGEMENT/1(1-0-0)**

Provides students with the conceptual knowledge and tools to make better use of their time in the management function.

**MAN 212 NEGOTIATION AND CONFLICT RESOLUTION/3(3-0-0)**

Presents proper techniques in negotiation and conflict resolution. Key practices that determine successful negotiation are explored. This course covers principles of conflict resolution including business policies, accepted business practices contracts, labor union contracts, pay raises and starting salaries.

**MAN 216 SMALL BUSINESS MANAGEMENT/3(3-0-0)**

Examines the elements necessary for the successful formation of a new small business. It is also designed to enhance the skills of those already involved in the operation of a small business. The course includes the development of a complete small business plan.

**MAN 226 PRINCIPLES OF MANAGEMENT/3(3-0-0)**

Presents a survey of the principles of management. Emphasis is on the primary functions of planning, organizing, leading and controlling with a balance between the behavioral and operational approach.

**MAN 287 COOPERATIVE EDUCATION/ INTERNSHIP/0.5-6**

Prerequisite: MAN 226 or permission of instructor.

Provides students with the opportunity to supplement course work with practical work experience related to their educational program and occupational objectives. Students are placed at approved work stations which are related to their program of study. They work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor/coordinator.

**MARKETING**

**MAR 111 PRINCIPLES OF SALES/3(3-0-0)**

Prerequisite: BUS 115

Enables the student to understand and develop ethical sales techniques and covers the role of selling in the marketing process. Areas of emphasis include behavioral considerations in the buying and selling process and sales techniques.

**MAR 117 PRINCIPLES OF RETAILING/3 (3-0-0)**

Emphasizes the study of the basic principles and techniques of merchandising, operations, layout, store organization, site location, and customer service with an emphasis on retailing operations.

**MAR 187 COOPERATIVE EDUCATION/ INTERNSHIP/0.5-6**

Provides students with the opportunity to supplement course work with practical work experience related to their educational program and occupational objectives. Students are

placed at approved work stations which are related to their program of study. They work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor/coordinator.

**MAR 216 PRINCIPLES OF MARKETING/3(3-0-0)**

Presents the analysis of theoretical marketing processes and the strategies of product development, pricing, promotion and distribution, and their applications to businesses and the individual consumer.

**MAR 220 PRINCIPLES OF ADVERTISING/3(3-0-0)**

Examines the principles and practices of advertising and its relationship to business in order to promote a business or organization. Areas of major emphasis include advertising principles, strategies, media, copy and layout, and ethical considerations.

**MAR 278 SEMINAR/0.5-6**

Provides students with an experiential learning opportunity.

**MASSAGE THERAPY**

**MST 105 LIFESTYLE WELLNESS/2(0.5-3-0)**

Provides opportunity to learn and apply specific wellness principles to your individual lifestyle. Student completes self-analysis of health behaviors and how lifestyle affects health status.

**MST 106 ANATOMY &PHYSIOLOGY FOR MASSAGE THERAPY/4(4-0-0)**

Provides a general knowledge of the anatomy and physiology of the body systems with focus on the anatomy and physiology of the muscular and skeletal systems. This course is designed specifically for individuals specializing in massage therapy.

**MST 111 BASIC MASSAGE THERAPY/4 (2-4-0)**

Introduces theory and techniques of therapeutic massage, including understanding of physiological benefits of massage as well as proper body mechanics and appropriate draping. Focuses on basic strokes of Swedish massage. Students also learn techniques of seated massage.

**MST 113 PROFESSIONAL MASSAGE/3  
(1.5-3-0)**

Continues the study of Integrative Therapeutic Massage techniques with emphasis on assessing and meeting client's needs. Students give massage in supervised in-class clinicals, applying appropriate therapeutic intervention.

**MST 184 CLINICAL MASSAGE/3(1.5-3-0)**

Prerequisite: HPR 102 or Professional CPR certificate

Applies skills in a clinical setting. Focuses on improvement of massage therapy skills, ethics, and communication.

**MST 204 MST BUSINESS PRACTICES/2  
(2-0-0)**

Assists the practitioner of massage therapy to envision, market, establish, and maintain a professional massage therapy practice.

**MST 216 PATHOLOGY FOR MASSAGE  
THERAPY/3(3-0-3)**

Focuses on basic knowledge of disease and injury to assist the massage therapist to promote healing, ease pain and discomfort, and avoid complications during therapy. With a broad perspective of pathology and specific pathophysiology of diseases contributing to the need for massage therapy, this course provides the foundational science for safe practice.

**MST 275 SPECIAL TOPICS/0.25-6**

Provides students with a vehicle to pursue in depth exploration of special topics of interest.

**MST 289 CAPSTONE/0.5-12**

Demonstrates the culmination of learning within a given program of study.

**MATH**

*Statewide Guaranteed Transfer courses will be designated with (MA1)*

**MAT 070 SPECIAL TOPICS 4/(4-0-0)**

Prerequisite: Math assessment.

Topics include math principles and concepts need to be successful in college-level math. Students work individually through modules to master competencies required for entry into college level math.

**MAT 071 SPECIAL TOPICS 4/(4-0-0)**

Prerequisite MAT 070

Continuation of MAT 070 for students who need additional coursework before enrolling in college level math.

**MAT 099 INTERMEDIATE ALGEBRA/4(4-0-0)**

Prerequisite: Successful completion of MAT 090 (Grade C or better) or assessment.

Emphasizes problem solving with further study of equations, slope, inequalities, systems of equations, polynomials, quadratic equations, rational expressions, rational exponents, radical expressions, graphing and applications. A graphing calculator or equivalent software may be utilized.

**MAT 103 MATH FOR CLINICAL  
CALCULATIONS/3(3-0-0)**

Prerequisite: MAT 090 or assessment.

Provides a review of general mathematics, introductory algebra and an opportunity to learn systems of measurement and methods of solving problems related to drug dosage and intravenous fluid administration. It is designed for students in the health disciplines. Topics may include algebra, graphs, measurement and conversion between various systems of measurement.

**MAT 107 CAREER MATH/3(3-0-0)**

Prerequisite: MAT 060 or assessment.

Covers material designed for career technical or general studies students who need to study particular mathematical topics. Topics may include measurement, algebra, geometry, trigonometry, graphs, and/or finance. These are presented on an introductory level and the emphasis is on applications.

**MAT 108 TECHNICAL MATHEMATICS/  
4(4-0-0)**

Prerequisite: MAT 090 (Grade of C or better) or assessment.

Covers material designed for career technical or general studies students who need to study particular mathematical topics. Topics may include measurement, algebra, geometry, trigonometry, graphs, and/or finance. These are presented on an introductory level and the emphasis is on applications.

**MAT 120 MATHEMATICS FOR LIBERAL**

**ARTS/4(4-0-0)** Prerequisite: ACT Math Score of 19, Accuplacer Elementary Algebra score of 85, or successful completion of MAT 099 (grade C or better).

Develops mathematical and problem-solving skills. Appropriate technological skills are included. Content is selected to highlight connections between mathematics and the society in which we live. Topics include set theory and logic, mathematical modeling, probability and statistical methods, and consumer mathematics. Additional content will include one topic in geometry, numeration systems, decision theory, or management science. *(MA1)*

**MAT 121 COLLEGE ALGEBRA/4(4-0-0)**

Prerequisite: Successful completion of MAT 099 (Grade C or better), ACT 23 or assessment. Includes a brief review of intermediate algebra, equations, and inequalities, functions and their graphs, exponential and logarithmic functions, linear and non-linear systems, selection of topics from among graphing of the conic sections, introduction to sequences and series permutations and combinations, the binomial theorem and theory of equations. *(MA1)*

**MAT 122 COLLEGE TRIGONOMETRY/3 3-0-0**

Prerequisite: MAT 121 or equivalent. Covers topics including trigonometric functions (with graphs and inverse functions), identities and equations, solutions of triangles, complex numbers, and other topics as time permits. This is a traditional prerequisite course to the calculus sequence. *(MA1)*

**MAT 123 FINITE MATHEMATICS/4(4-0-0)**

Prerequisite: MAT 099 or equivalent. Covers topics including functions, matrix algebra, linear programming, and an introduction to probability and counting techniques. Emphasis is on applications. This course may include other topics such as statistics when time permits. This course is primarily intended for business, life science, or social science majors. *(MA1)*

**MAT 125 SURVEY OF CALCULUS/4(4-0-0)**

Prerequisite: MAT 121, ACT 25 or permission of instructor. Includes derivatives, integrals, and their applications, with attention restricted to algebraic, exponential, and logarithmic functions for business, life science and/or social science majors. *(MA1)*

**MAT 135 INTRODUCTION TO STATISTICS/3(3-0-0)**

Prerequisite: MAT 099, ACT 21, or equivalent competency. Includes data presentation and summarization, introduction to probability concepts and distributions, statistical inference—estimation, hypothesis testing, comparison of populations, correlation and regression. *(MA1)*

**MAT 155 INTEGRATED MATH I/3(3-0-0)**

Prerequisite: MAT 099, ACT 19, or equivalent competency. Engages students in the concepts of school mathematics, the course will include the recognition of numerical and geometric patterns and their application to a variety of mathematical situations; mathematical problem-solving, reasoning, critical thinking, and communication; algebraic thinking, representation, analysis, manipulation, generalizations and extensions.

**MAT 156 INTEGRATED MATH II/3(3-0-0)**

Further MAT 155 concepts, the course will include fundamentals of probability, statistics, and Euclidean geometry. Mathematical problem-solving, reasoning, critical thinking and communication will continue to be an integral part of this sequence.

**MAT 166 PRE-CALCULUS 5(5-0-0)**

Prerequisite: MAT 099, ACT 25, or equivalent. Reviews college algebra and college trigonometry intended for those planning to take calculus. Topics include algebraic manipulations, properties of algebraic and trigonometric functions and their graphs, trig identities and equations, conic sections, polar coordinates and parametric equations. *(MA1)*

**MAT 201 CALCULUS I/5(5-0-0)**

Prerequisite: MAT 121 and MAT 122, ACT 28, or equivalent. Introduces single variable calculus and analytic geometry. Includes limits, continuity, derivatives, and applications of derivatives as well as indefinite and definite integrals and some applications. *(MA1)*

**MAT 202 CALCULUS II/5(5-0-0)**

Prerequisite: MAT 201 or permission of instructor. Continuation of single variable calculus which will include techniques of integration, polar coordinates, analytic geometry, improper integrals, and infinite series. *(MA1)*

**MAT 203 CALCULUS III/4(4-0-0)**

Prerequisite: MAT 202 or equivalent.

Completes the traditional subject matter of the Calculus. Topics include vectors, vector-valued functions, and multivariable calculus including partial derivatives, multiple integrals, line integrals and application. (MA1)

**MAT 204 CALCULUS III WITH ENGINEERING APPLICATIONS/5(5-0-0)**

Includes all the topics of MAT 203 Calculus III with an additional emphasis on word problems and problem solving. This is the third course in the three-course calculus sequence. This course will additionally contain a thorough examination of multiple integration. This will include double and triple integrals, line integrals, Stokes' and Green's Theorems, and their applications. A graphing calculator is required for this course. (MA1)

**METEOROLOGY**

*Statewide Guaranteed Transfer courses will be designated with (SC1)*

**MET 150 GENERAL METEOROLOGY/4(4-0-0)**

Provides an introduction to general meteorology and atmospheric sciences. It includes the composition and structure of the atmosphere and characteristics that affect the atmosphere, such as temperature, pressure, and moisture. Additionally, the development of weather systems, such as storm systems, hurricanes, weather fronts and cloud development will also be examined. Finally, concepts of climatology will be stressed. (SC1)

**MULTIMEDIA GRAPHIC DESIGN****MGD 103 PRODUCTION DESIGN/3(3-0-0)**

Explores the use of tools, computer graphics techniques and design layout principles to produce professional graphic designs. Studies include printing basics, typography and digital color systems. Students use creative thinking to solve communication and design concepts for the output process.

**MUSIC**

*Statewide Guaranteed Transfer courses will be designated with (AH1)*

**MUS 100 FUNDAMENTALS OF MUSIC/3(3-0-0)**

Designed to help the beginning music student, or those students with a limited background in

music theory, study the basic elements of music, including notation, rhythm, scales, key signatures, intervals and chords.

**MUS 110 MUSIC THEORY I/3(3-0-0)**

Prerequisite: MUS 100 or permission of instructor.

Presents music fundamentals, diatonic four-part harmony, analysis, ear training, and keyboard harmony. For music majors transferring to a 4-year program.

**MUS 111 MUSIC THEORY II/3(3-0-0)**

Prerequisite: MUS 110.

Presents chromatic four-part harmony, analysis, ear training, and keyboard harmony.

**MUS 120 MUSIC APPRECIATION/3(3-0-0)**

Covers the basic materials of music, musical forms, media, genres and musical periods. Emphasizes the development of tools for intelligent listening and appreciation. (AH1)

**MUS 121 MUSIC HISTORY I/3(3-0-0)**

Studies the various periods of music history with regard to the composers, esthetics, forms, and genres of each period. Considers music from the Middle Ages through the Classical period. (AH1)

**MUS 122 MUSIC HISTORY II/3(3-0-0)**

Studies the various periods of music history with regard to the composers, aesthetics, forms, and genres of each period. Considers music from the early Romantic period to the present. (AH1)

**MUS 131 MUSIC CLASS I/2**

Prerequisite: Instructor permission.

Applies the fundamentals of music to the voice or specific musical instruments. This course also introduces basic techniques, repertoire, and sight-reading.

**MUS 132 MUSIC CLASS II/2**

Prerequisite: Instructor permission.

Applies the fundamentals of music to the voice or specific musical instruments. The course also introduces basic techniques, repertoire, and sight-reading.

**MUS 133 MUSIC CLASS III/2**

Prerequisite: Instructor Permission.

Applies the fundamentals of music to the voice or specific musical instruments. The course also introduces basic techniques, repertoire, and sight-reading.

**MUS 134 MUSIC CLASS IV/2**

Prerequisite: Instructor permission.

Applies the fundamentals of music to the voice or specific musical instruments. The course also introduces basic techniques, repertoire, and sight-reading.

**MUS 141 PRIVATE INSTRUCTION**

**(SPECIFY)/1-2** Prerequisite: Class instruction or instructor permission.

An additional fee is required.

1 credit primarily for non-music majors. 2 credits for music majors planning to transfer to 4 year school. Offers private instruction consisting of a thirty or sixty minute lesson per week.

Participation in a student performance is required at least once each term for 1 credit.

Regular attendance at and participation in student performances is required for 2 credits.

**MUS 142 PRIVATE INSTRUCTION**

**(SPECIFY)/1-2** Prerequisite: Class instruction or instructor permission.

An additional fee is required.

1 credit primarily for non-music majors. 2 credits for music majors planning to transfer to 4 year school. Offers private instruction consisting of a thirty or sixty minute lesson per week.

Participation in a student performance is required at least once each term for 1 credit.

Regular attendance at and participation in student performances is required for 2 credits.

**MUS 143 PRIVATE INSTRUCTION**

**(SPECIFY)/1-2** Prerequisite: Class instruction or instructor permission.

An additional fee is required.

1 credit primarily for non-music majors. 2 credits for music majors planning to transfer to 4 year school. Offers private instruction consisting of a thirty or sixty minute lesson per week.

Participation in a student performance is required at least once each term for 1 credit.

Regular attendance at and participation in student performances is required for 2 credits.

**MUS 144 PRIVATE INSTRUCTION**

**(SPECIFY)/1-2** Prerequisite: Class instruction or instructor permission.

An additional fee is required.

1 credit primarily for non-music majors. 2 credits for music majors planning to transfer to 4 year school. Offers private instruction consisting of a thirty or sixty minute lesson per week.

Participation in a student performance is required at least once each term for 1 credit.

Regular attendance at and participation in student performances is required for 2 credits. May be repeated for credit more than once per individual institution policy.

**MUS 151 ENSEMBLE I/1**

Prerequisite: Instructor permission.

Rehearses and performs various types of musical literature.

**MUS 152 ENSEMBLE II/1**

Prerequisite: Instructor permission.

Rehearses and performs various types of musical literature.

**MUS 153 ENSEMBLE III/1**

Prerequisite: Instructor permission.

Rehearses and performs various types of musical literature.

**MUS 154 ENSEMBLE IV/1**

Prerequisite: . Instructor permission

Rehearses and performs various types of musical literature.

**NAIL TECHNICIAN**

Student must be 16 years of age and have appropriate Accuplacer scores before enrolling in this program.

**NAT 110 INTRODUCTION TO MANICURES & PEDICURES/3(1-4-0)**

Provides a basic introduction in the proper use of implements used in manicures and pedicures. Theory and practical application of proper set-up, safety, sanitation, nail shapes, anatomy, product knowledge and terminology dealing with manicures and pedicures is covered. Training is done in a classroom or lab setting using models or other techniques.

**NAT 111 INTERMEDIATE MANICURES & PEDICURES/2(1-2-0)**

Presents theory and practical application dealing with different types of manicures, pedicures, nail art and massage techniques. Theory and practical application of procedures, products, nail shapes and maintenance of natural nails is covered. Students learn to recognize different nail disorders and their proper treatment. Training is done in a specialized class or in supervised salon (clinical) setting, using models or customer service. Proper sanitation and sterilization as it pertains to all aspect of manicures, pedicures and nail art is taught.

**NAT 210 ADVANCED MANICURES & PEDICURES/2(1-2-0)**

Presents theory and practical application dealing with different types of manicures, pedicures massage techniques and nail art. Theory and practical application of procedures, products, nail shapes and maintenance of the natural nails is covered. Students learn to recognize different nail disorders and their proper treatment. Training is done in a specialized class or in supervised salon (clinical) setting, using models or customer service.

**NAT 211 APPLICATION OF ARTIFICIAL NAILS/5(2-6-0)**

Provides advanced theory and practical application of nail wraps, tip overlays, acrylics and product knowledge to ready the student for employment. Theory and practical application of removal techniques for artificial nails is covered. Instruction is provided in specialized classes or in supervised salon (clinical) setting using models or customer service. Student preparation for state board licensing examination pertaining to artificial nails is covered.

**NAT 275 SPECIAL TOPICS/0.5-12**

Provides students with a vehicle to pursue in depth exploration of special topics of interest.

**NAT 280 INTERNSHIP/0.5-12**

This course provides students with the opportunity to supplement coursework with practical work experience related to their educational programs. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor.

**NAT 285 INDEPENDENT STUDY/.05-12**

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

**NAT 288 PRACTICUM/0.5-12**

Prerequisite: Student must be 16 years of age. Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor.

**NAT 290 ADVANCED NAIL TECHNICIAN STUDIES/0.5-10**

Provides students with a vehicle to pursue in depth exploration of special topics of interest.

**NATURAL RESOURCES**

*Statewide Guaranteed Transfer courses will be designated with (SC1)*

**NRE 100 FOUNDATIONS OF FORESTRY/3(3-0-0)**

Presents the principles of forest science, dendrology, forest fire behavior, and silviculture principles.

**NRE 102 INTRODUCTION TO NATURAL RESOURCES MANAGEMENT/3(3-0-0)**

Covers an overview of our natural resources, the environmental concerns related to their management, and the agencies in charge of management of natural resources.

**NRE 103 OCEANOGRAPHIC FIELD TECHNIQUES/3(2-2-0)**

Introduces working safely and efficiently from a coastal research vessel. Includes topics such as maritime terminology, positioning and navigation, basic maritime weather, shipboard sampling and measurement techniques. Includes lectures and field sessions aboard the R/V Kaholo. Required for incoming freshmen and strongly recommended for transfer students. Taught at Hawaii Pacific University.

**NRE 104 FIELD WORK SAFETY TECHNIQUES/3(2-2-0)**

Introduces safety skills and attitudes necessary for efficient performance of marine science field work. Topics include CPR, first aid, and lifesaving (all with certification), as well as training in snorkeling and recognition of marine hazards. Includes lectures and field sessions. Required for incoming freshmen and strongly recommended for transfer students. Taught at Hawaii Pacific University.

**NRE 121 INTRODUCTION TO HYDROLOGY/3(3-0-0)**

Introduces the movement of ground and surface water. Basic flow equations and graphs are used.

**NRE 127 FIELD MONITORING TECHNIQUES/2 (2-0-0)**

Teaches the basic techniques utilized by land and water environmental technicians. Students

will obtain training in the areas of field equipment use and calibration (inclusive of flow meters, water and soil quality instrumentation etc). Students will also learn the importance properly designed data collection efforts and the limitations imposed by data collection and interpretation activities. Application of statistics and GIS data interpretation methods will also be discussed.

**NRE 204 RANGE MANAGEMENT AND RESTORATION/4(4-0-0)**

Prerequisite: AGY 240.

Covers management of rangelands, important plants, rangeland communities, and restoration practices to restore disturbed ecosystems. Students will learn field measurement techniques of ecosystem components.

**NRE 205 WILDLIFE AND FISHERIES MANAGEMENT PRINCIPLES/3(3-0-0)**

Covers theory, philosophy, and applications for study and management of wildlife and fisheries resources. Field and laboratory methods used in wildlife management also covered.

**NRE 211 ENVIRONMENTAL POLICIES AND ECONOMICS/3(3-0-0)**

Covers interactions, resources, economics and politics; government and environment policy. Evaluation of alternative resource use patterns and land use plans. Discussion and analysis of current environmental issues and the impact of economic growth.

**NRE 219 BIOLOGICAL ISSUES IN RECLAMATION/4(2-4-0)**

Addresses the biological issues of reclamation such as what constitutes an exotic species, planting practices, time tables, seed mixture selection, and preparation of soils.

**NRE 221 ADVANCED HYDROLOGY/3(2-2-0)**

Prerequisite: NRE 121.

Continues to expand the knowledge of hydrology by moving into the applied aspects of wetland and stream management.

**NRE 226 WETLANDS MONITORING/3 (2-0-2.5)** Prerequisites: ENG 131, MAT 135, BIO 154, NRE 237.

Covers the aspect of compliance with local, state, and federal regulations, written reports, and oral reporting and the actual sampling procedures and analysis.

**NRE 227 RECLAMATION SITE MONITORING/3(2-0-2.5)** Prerequisites: ENG 131, MAT 135, BIO 154, NRE 219.

Covers the aspect of compliance with local, state, and federal regulations, written reports, and oral reporting and the actual sampling procedures and analysis.

**NRE 237 WETLANDS REGULATORY 4/3 (2-0-5)** Prerequisite: AGY 240.

Refers to the Federal wetlands delineation training program.

**NRE 238 WETLANDS REGULATORY 5/3 (2-0-2.5)** Prerequisite: AGY 240, NRE 237.

Refers to the Federal wetlands delineation training program.

**NRE 251 GENERAL OCEANOGRAPHY I/4 (4-0-0)** Prerequisite: BIO 111/112 or CHE111/112, NRE 103/104

Provides a comprehensive introduction to modern geological and chemical oceanography. Includes earth history, plate tectonics, geophysics, geochemistry, marine sediments, the hydrosphere, physical properties of salt water, major and minor components of seawater, and ocean-atmosphere interactions. This course includes laboratory experience. (SC1)

**NRE 260 NATURAL RESOURCE POLICY AND ADMINISTRATION/3(3-0-0)**

Examines the management complex environmental and natural resource policy issues. Taking into account new developments, trends, and issues that have arisen in recent years, this course begins with the recognition that it is not the environment that needs to be managed, but human action relating to the environment.

**NRE 280 INTERNSHIP/0.0-12**

Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor.

## **NURSING ASSISTANT**

### **NUA 101 CERTIFIED NURSE AIDE HEALTH CARE SKILLS/4(4-0-0)**

Prepares the student to perform the fundamental skills of the nurse aide. Basic nursing skills, communication skills, restorative services, personal care skills, safety and emergency care issues are covered. Includes knowledge and/or principles or asepsis, OSHA and HIPAA regulations. Ethical behaviors, cultural sensitivity and principles of mental health will be addressed, as well as patient/resident rights.

### **NUA 170 NURSE ASSISTANT CLINICAL EXPERIENCE/1(0-2-0)** Prerequisite: Successful completion of NUA 101.

Applies knowledge gained from NUA 101 to patient care.

## **NURSING**

### **NUR 101 PHARMACOLOGY CALCULATIONS/1(1-0-0)**

Prerequisite: Acceptance into a professional nursing program.

Introduces the nursing student to the concepts and techniques of dosage calculations and medication administration by a variety of routes. Learners will apply basic math concepts to complex conversion of dosages between and among various systems of weights and volumes. Learners will apply critical thinking skills to the calculation and administration of medications by oral and parenteral (including intravenous) routes of administration.

### **NUR 106 MEDICAL AND SURGICAL NURSING CONCEPTS/9(3.5-1-10)**

NUR106 is the first medical/surgical nursing course. Building on NUR109, this course provides for the acquisition of basic medical/surgical nursing theory, as well as application of mental health concepts, communication, collaboration, caring, and critical thinking/clinical reasoning necessary for safe, patient-centered care to a developmentally and culturally diverse adult patient population experiencing various medical/surgical interventions. Incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the nurse. Application of knowledge and skills occurs in the nursing skills laboratory and a variety of clinical settings.

### **NUR 109 FUNDAMENTALS OF NURSING/8(2-6-6)**

Introduces the fundamental concepts necessary for safe, patient-centered nursing care to a diverse patient population while integrating legal and ethical responsibilities of the nurse.

Introduces caring, critical thinking, the nursing process, quality improvement, and communication used when interacting with patients and members of the interdisciplinary team, and relates evidence-based nursing practice. Application of knowledge and skills occurs in the nursing skills laboratory and a variety of clinical settings providing care to stable patients with common health alterations.

### **NUR 112 BASIC CONCEPTS OF PHARMACOLOGY/2(2-0-0)**

Prerequisite: Successful completion of preceding required program course work or permission of program director.

Overview of the basic principles of pharmacology including major drug classifications and prototypes of commonly used medications. Principles of medication administration include aspects of best practice for safe, quality, patient-centered care. Central points include safety, quality improvement factors in the administration of medications, patient teaching, and variations encountered when administering medications to diverse patient populations across the lifespan.

### **NUR 150 MATERNAL – CHILD NURSING/7(3-2-6)**

Provides for the acquisition of maternal/child nursing theory, as well as application of mental health concepts, communication, collaboration, caring, and critical thinking/clinical reasoning necessary for safe, family-centered nursing care to childbearing families and children that is developmentally and culturally appropriate. Incorporates evidence-based practice, standards of practice, quality improvement, and legal and ethical responsibilities of the nurse. Application of knowledge and skills occurs in the nursing skills laboratory and in a variety of maternal/child and pediatric clinical settings.

### **NUR 169 TRANSITION INTO PRACTICAL NURSING/5(2-0-6)**

Provides the student with a transition into the role of the practical nurse. Emphasis will be placed on distinguishing the practical nurses defined scope of practice related to clinical practice, communication, nursing process,

ethical/legal issues and leadership skills. The student practices in the role of the practical nurse in the associated clinical experience.

**NUR 199 TRANSITION FROM LPN TO ADN/4(2-4-0)**

Focuses on assisting the LPN to transition into a new role as an Associate Degree Nursing Student. Emphasis will be placed on roles and responsibilities of the ADN, nursing process, critical thinking, legal and ethical issues and nursing practice issues related to specialized skills and the care of special populations.

**NUR 206 ADVANCED CONCEPTS OF MEDICAL-SURGICAL NURSING I/8(3-1-9)**

Prerequisite: Successful completion of preceding required program course work or permission of program director.  
Builds on NUR106 focusing on advanced concepts of nursing applied to care of patients with high acuity medical/surgical conditions. Builds on medical/surgical nursing theory, mental health concepts, communication, collaboration, caring, and critical thinking/clinical reasoning necessary for safe, patient-centered nursing care to developmentally and culturally diverse adult patients. Incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the professional nurse as applied in a variety of healthcare settings. Application of knowledge and skills occurs in the nursing skills laboratory and in a variety of clinical settings.

**NUR 211 PSYCHIATRIC – MENTAL HEALTH NURSING/4(1-2-4)**

Prerequisite: Successful completion of preceding required program course work or permission of program director.  
Develops concepts of psychosocial integrity and emphasizes the function and responsibility of nursing in promoting and maintaining mental health of individuals and families. This course emphasizes communication and caring through the application of the therapeutic relationship and nursing process in the care and treatment of common clinical conditions/disorders.

**NUR 212 PHARMACOLOGY II/2(2-0-0)**

Builds on previously introduced pharmacological concepts and applies that learning to pharmacologic therapy to provide safe, quality, evidence-based nursing care to patients with complex healthcare needs. Focuses on safety

and quality improvement factors in the administration of medications within a variety of healthcare systems. Advanced dosage calculations included.

**NUR 216 ADVANCED CONCEPTS OF MEDICAL-SURGICAL NURSING II/6(2-0-8)**

Prerequisite: Successful completion of preceding required program coursework or permission of program director.  
A continuation of NUR 206, focusing on complex medical/surgical conditions of the high acuity patient. Builds on medical/surgical nursing theory, mental health concepts, communication, collaboration, caring, and critical thinking/clinical reasoning necessary for safe, patient-centered nursing care to developmentally and culturally diverse adult patients experiencing high acuity medical/surgical conditions. Incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the professional nurse as applied in the acute care and high acuity settings. Application of knowledge and skills occurs in a variety of clinical settings.

**NUR 230 TRANSITION TO PROFESSIONAL NURSING PRACTICE/5(1.5-0-7)**

A seminar and practice capstone course that provides an integrative experience applying all dimensions of the professional nurse in the care of diverse patient populations across a variety of healthcare settings. All major concepts of the nursing program are addressed. Leadership and the management of multiple patients are emphasized. Application of knowledge and skills occurs in the clinical setting to facilitate an effective transition from student to registered professional nurse.

**OUTDOOR STUDIES**

**OUT 120 ORIENTEERING/1 (1-0-0)**

Become familiar with backcountry navigation. Wilderness travel potential will be expanded by learning the proper use of maps, compass, and other tools.

**OUT 216 CHALLENGE COURSE FACILITATION / 2 (2-0-0)**

Provides approaches to challenge course management including construction and maintenance of high and low elements,

facilitation and group dynamics, risk management and safety, and challenge course philosophies.

### **PHYSICAL EDUCATION/1-2**

Below is a partial list of physical education activity offerings:

PED 100	Beginning Golf
PED 101	Baseball
PED 102	Volleyball
PED 103	Softball
PED 104	Racquetball
PED 105	Basketball
PED 106	Tennis
PED 108	Beginning Swimming
PED 109	Advanced Swimming
PED 112	Conditioning Lab
PED 113	Fitness Concepts
PED 116	Weight Training
PED 117	Cross Training
PED 119	Fitness Circuit Training
PED 121	Step Aerobics
PED 124	Mountain Biking
PED 125	Bowling
PED 126	Water Aerobics
PED 127	Introduction to Fly Fishing
PED 129	Scuba Diving
PED 135	Intermediate Tennis
PED 136	Advanced Weight Training
PED 146	Martial Arts
PED 154	Backpacking
PED 200	Advanced Golf

### **VARSITY SPORTS/1**

PED 137	Men's Basketball
	Women's Basketball
	Baseball
	Softball
	Volleyball

### **PED 126 SCUBA DIVING/1(1-0-0)**

Provides basic instruction in scuba diving. Focuses on the knowledge and skills related to swimming and snorkeling, diving equipment, communications, the environment, safety, dive tables, and other pertinent information a student needs for safe scuba diving. This course prepares the student for open-water (PADI) certification.

### **PED 155 OUTDOOR EXPEDITION/3(3-0-0)**

Consists of a group expedition covering seven to ten days incorporating hiking, backpacking, climbing, or paddling in remote North American regions. Examines the rationale for organizing and conducting wilderness trips.

### **PED 165 WILDERNESS SURVIVAL SKILLS/3(3-0-0)**

This course emphasizes the physiological, psychological and practical principles of survival. Survival equipment, wilderness improvising techniques, and wilderness dangers are included.

### **PED 215 OPEN WATER DIVE/1(1-0-0)**

Requires student divers to demonstrate mastery of performance requirements for four (4) different open water dives to become a certified open water diver through the Professional Association of Diving Instructors (PADI).

### **PHYSICAL EDUCATION & RECREATION**

#### **PER 113 INTRODUCTION TO PHYSICAL EDUCATION AND SPORT/2(2-0-0)**

Focuses on the field of physical education and sports. Includes trends, precedents and their effects in the health and total wellness of those involved.

#### **PER 126 INTRODUCTION TO COACHING/2(2-0-0)**

Acquaints the learner with the knowledge, requirements and responsibilities of coaching, including sport philosophy, sport medicine, and sport management. Fulfills requirements for ACEP Leader Level I.

#### **PER 128 INTRODUCTION TO RECREATION/2(2-0-0)**

Studies the history, principles, philosophy, and contemporary problems and trends of recreation and their influence upon today's American society.

#### **PER 175 SPECIAL TOPICS/0.5-6**

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

#### **PER 188 ATHLETIC TRAINING PRACTICUM I/1-3** Prerequisite: PER 231

Provides the opportunity for students to observe and gain experience in the techniques used in an athletic training room.

**PER 200 OUTDOOR RECREATION PROGRAMMING/3(3-0-0)**

Provides effective planning, staffing, and budgeting for the outdoor experience for the maximum opportunity for a successful program. Issues of marketing and promotion, agency coordination, risk management, environmental impact, logistics and the customer needs and expectations are addressed.

**PER 231 INTRODUCTION TO SPORT & EXERCISE INJURY MANAGEMENT/2(2-0-0)**

Offers instruction in identification and management of basic sports injuries. Enables the student to practice taping techniques, injury care and basic modes of rehabilitation following injury.

**PER 250 SOCIAL RECREATION AND LEADERSHIP/3(3-0-0)**

Enables the student to study effective leadership methods and techniques used in social recreation programming. Students experience actual settings of appropriate activities in community organizations with different age groups.

**PER 252 PRINCIPLES OF OUTDOOR RECREATION/3 (3-0-0)**

Includes lecture and practical outdoor experience relating to problems and trends in outdoor recreation.

**PER 253 OUTDOOR LEADERSHIP/2 (2-0-0)**

Introduces the development, acquisition, and application of outdoor leadership skills and knowledge. Focuses on the latest information philosophy, and techniques necessary to safely conduct outdoor. Skills are applied under actual field conditions. Emphasizes minimal impact camping, wilderness ecology, judgment and decision making, group dynamics and trip logistics. These skills enhance effectiveness as an outdoor leader.

**PER 260 SPORTS OFFICIATING/2(2-0-0)**

Provides knowledge on basic fundamentals for all officials - how to deal with crowds and knowing the state organizations and their purposes.

**PER 288 ATHLETIC TRAINING PRACTICUM II/2-3** Prerequisite: PER 188.

Provides the opportunity for students to gain advanced experience in the techniques used in an athletic training room.

**PHILOSOPHY**

*Statewide Guaranteed Transfer courses will be designated with (AH3)*

**PHI 111 INTRODUCTION TO PHILOSOPHY/ 3(3-0-0)** Prerequisite: College level reading and writing skills.

Introduces significant human questions and emphasizes understanding the meaning and methods of philosophy. Includes human condition, knowledge, freedom, history, ethics, the future, and religion. (AH3).

**PHI 112 ETHICS/3(3-0-0)**

Prerequisite: College level reading and writing skills.

Examines human life, experience, and thought in order to discover and develop the principles and values for pursuing a more fulfilled existence. Theories designed to justify ethical judgments are applied to a selection of contemporary personal and social issues. (AH3).

**PHI 113 LOGIC/3(3-0-0)**

Prerequisite: College level reading and writing skills.

Studies effective thinking using language-oriented logic. Provides tools and develops skills for creative and critical thinking. Emphasizes the development of decision-making and problem-solving. (AH3).

**PHI 114 COMPARATIVE RELIGIONS/3(3-0-0)**

Prerequisite: College level reading and writing skills.

Introduces students to the similarities and differences among concepts predominant in the major world religions, comparing sociological, philosophical, and phenomenological similarities between major world faiths. It is designed to transfer to any four-year college philosophy, religious studies, or humanities department. (AH3).

**PHI 121 CURRENT ISSUES AND ETHICS IN DENTAL HYGIENE/1(1-0-0)**

Prerequisite: Enrollment in the Dental Hygiene Program.

Discusses current issues in dental hygiene and heightens student's awareness of ethical issues

and choices for action. Includes a library project and an opportunity to facilitate a discussion.

**PHI 214 PHILOSOPHY OF RELIGION/3(3-0-0)**

Focuses on the critical examination of the fundamental concepts, ideas, and implications of religion. Includes the nature of God, the varieties of religious experience, argument concerning God's existence, the Problem of Evil, faith and reason, religion and human destiny, and the connection between religion and ethics. (AH3).

**PHI 218 ENVIRONMENTAL ETHICS/3(3-0-0)**

Critically analyzes theories of value of the natural world. Topics include the relation between scientific and moral principles; theories of the moral worth of persons, animals, plants and other natural objects; historical, religious and cultural influences on conceptions of nature; alternative accounts of human relationships and responsibilities to nature, including deep ecology and eco-feminism; and the connection between moral and political values and economic policies. (AH3)

**PHOTOGRAPHY**

**PHO 101 PHOTOGRAPHY I/3(2-2-0)**

Introduces black and white photography as a fine art medium and develops skills necessary for basic camera and lab operations.

**PHO 102 PHOTOGRAPHY II/3(2-2-0)**

Prerequisite: Photography 101 or demonstrated competency.

This course is a further exploration in camera and lab operations with an emphasis on individual creativity. It includes the development of a comprehensive portfolio.

**PHO 202 PHOTOGRAPHY III/3(2-2-0)**

Prerequisite: PHO 101 and PHO 102 or demonstrated competency.

Explores photography technique with emphasis on history, theory, and assimilation of ideas into the students' creative work. Includes the development of a comprehensive portfolio.

**PHO 275 SPECIAL TOPICS/0.5-6**

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

**PHYSICS**

*Statewide Guaranteed Transfer courses will be designated with (SC1)*

**PHY 105 CONCEPTUAL PHYSICS  
W/LAB/4(3-2-0)**

Focuses on mechanics, heat, properties of matter, electricity and magnetism, light and modern physics. Incorporates laboratory experience.(SC1)

**PHY 111 PHYSICS: ALGEBRA BASED I  
WITH LAB/5(4-2-0)**

Prerequisite: MAT 121. Enables the student to explore the truth about physical reality through reasoning, mathematics and experimentation. Examines kinematics, force, circular motion, energy, momentum, torque, rotational dynamics, simple harmonic motion, temperature, heat and thermodynamics. The concepts and theories presented are explored through demonstrations and hands-on experiments. It is a general physics course that is recommended for all of the health sciences and all other interested students. Students entering engineering or one of the advance sciences should register for PHY 211.(SC1)

**PHY 112 PHYSICS: ALGEBRA BASED II  
WITH LAB/5(4-2-0)**

Prerequisite: PHY 111. Expands upon PHY 111 and covers sound waves, electric fields, electric circuits, magnetic fields, optics, and modern physics. Explores the concepts and theories presented in class through demonstrations and hands-on experiments.(SC1)

**PHY 211 PHYSICS: CALCULUS-BASED I  
WITH LAB/5(4-2-0)**

Prerequisite: MAT 201. Enables the student to examine the truth about physical reality through reasoning, mathematics and experimentation. Covers kinematics, force, gravity, energy, momentum, torque, rotational dynamics, fluids and waves. The concepts and theories presented in class are explored through demonstrations and hands-on experiments. This first semester calculus-based physics course is recommended for students entering engineering or one of the advance sciences. (SC1)

**PHY 212 PHYSICS: CALCULUS-BASED II WITH LAB/5(4-2-0)**

Prerequisite: PHY 211. Expands upon PHY 211 and examines thermodynamics, electric fields, electric circuits, magnetic fields, light and optics, and modern physics. The concepts and theories presented in class are explored through demonstrations and hands-on experiments. (SC1)

**POLITICAL SCIENCE**

*Statewide Guaranteed Transfer courses will be designated with (SS1)*

**POS 105 INTRODUCTION TO POLITICAL SCIENCE/3(3-0-0)**

Focuses on a survey of the discipline of political science, including political philosophy and ideology, democratic and non-democratic governments, and processes, and international relations. (SS1)

**POS 111 AMERICAN GOVERNMENT/3(3-0-0)**

Includes the background of the U.S. Constitution, the philosophy of American government, general principles of the Constitution, federalism, and civil liberties. Examines public opinion and citizen participation, political parties, interest groups, and the electoral process, and the structure and functions of the national government. (SS1)

**POS 125 AMERICAN STATE AND LOCAL GOVERNMENT/3(3-0-0)**

Emphasizes the structure and function of state, county, and municipal governments including their relations with each other and with national government. Includes a study of Colorado government and politics. (SS1)

**POS 205 INTERNATIONAL RELATIONS/3(3-0-0)**

Examines relationships among modern nation states. Topics include diplomacy, nationalism, ideologies, power and influence, conflict and cooperation, the role of non-state actors, the international economy and theoretical attempts to understand international behavior. (SS1)

**POS 215 CURRENT POLITICAL ISSUES/3(3-0-0)**

Incorporates an in-depth analysis of critical issues in political science. Examines current topics and issues. (SS1)

**POS 225 COMPARATIVE GOVERNMENT/3(3-0-0)**

Focuses on a comparison of the basic features of selected developed and developing countries. Topics include ideologies, political parties, interest groups, and governmental institutions. (SS1)

**PARK RANGER****PRA 100 SEASONAL PARK RANGER ACADEMY I/6(6-0-0)**

Conforms to National Park Service standards and Federal Law Enforcement Training Center (FLETC) certification requirements. Basic skills and knowledge necessary to perform the entry level duties as a seasonal Law Enforcement Ranger will be covered. Provide the student with basic knowledge of federal guidelines and competencies of Code of Federal Regulations (CFR). Emphasis will be on simulating actual situations.

**PRA 101 SEASONAL PARK RANGER ACADEMY II/ 6(6-0-0)**

Conforms to National Park Service standards and Federal Law Enforcement Training Center (FLETC) certification requirements. This course continues PRA 100's introduction into the basic skills and knowledge necessary to perform the entry level duties of a Seasonal Law Enforcement Ranger. This course introduces crime scene investigation. DUI detection, professional and radio communication.

**PRA 103 NPS Basic Tactics/1(1-0-0)**

Demonstrate and practice NPS basic tactics. The basic tactics are core skills, concepts, and principles which allow the student to apply the tactics learned in any environment or venue. These basic tactics learned and demonstrated will increase confidence and ranger safety while working in various tactical environments. The basic tactics can be applied to an infinite number of situations in all fields of law enforcement.

***Pending approval***

**PRA 104 NPS Physical Fitness Training/2(2-0-0)**

Participation in a five item physical fitness assessment known as the Physical Efficiency Battery (PEB) in order to determine the individual's functional capacity in the areas of body composition, speed and agility, flexibility, muscular strength, and cardiovascular endurance. ***Pending approval***

**PRA 105 NPS Firearms/4(4-0-0)**

Demonstrate knowledge of nomenclature, safety rules and regulations, safe weapons handling, de-cocking, loading, unloading and transfer of a weapon from one person to another and home safety with their duty weapon. Students will also be able to safely operate the weapon. Students will understand safety, nomenclature, loading/unloading, firing positions, techniques of marksmanship, ammunition, and maintenance of handgun, shotgun, and patrol rifle. The student will demonstrate proficiency in the fundamentals of marksmanship and weapon handling skills as designated by the National Park Service Courses of Fire. *Pending approval*

**PRA 107 RANGER DRIVING TACTICS/1 (1-0-0)**

This course covers the skills, knowledge, and abilities required for operation of Law Enforcement vehicles. Emphasis on defensive driving, and skills used in pursuit situations, both emergency and non-emergency. Students will demonstrate driving techniques.

**PRA 180 INTERNSHIP/3 (0-0-3)**

Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor.

**PSYCHOLOGY**

*Statewide Guaranteed Transfer courses will be designated with (SS3)*

**PSY 101 GENERAL PSYCHOLOGY I/3(3-0-0)**

Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning and memory.(SS3)

**PSY 102 GENERAL PSYCHOLOGY II/3(3-0-0)**

Focuses on the scientific study of behavior including cognition, language, intelligence, psychological assessment, personality, abnormal psychology, therapy, life span development, and social psychology.(SS3)

**PSY 106 HUMAN RELATIONS/3(3-0-0)**

Emphasizes the development and practice of effective interpersonal skills on and off the job.

**PSY 110 CAREER DEVELOPMENT/3(3-0-0)**

Assists the student in recognizing their career potential, and provides tools for making realistic decisions concerning educational and occupational objectives.

**PSY 116 STRESS MANAGEMENT/3(3-0-0)**

Identifies the physiological, emotional and behavioral aspects of stress. Techniques of stress reduction and management are explored and applied, including nutrition, exercise, assertiveness, time management, and financial management. This course is not designed for transfer.

**PSY 205 PSYCHOLOGY OF GENDER/3 (3-0-0)**

Examines gender comparisons in work, courtship, family life, and sexual behavior throughout the life span.(SS3)

**PSY 217 HUMAN SEXUALITY/3(3-0-0)**

Surveys physiological, psychological, and psychosocial aspects of human sexuality. Topics include relationships, sexual identity, and sexual health.(SS3)

**PSY 226 SOCIAL PSYCHOLOGY/(3-0-0)**

Prerequisite: 3 credit hours of general psychology or general sociology or instructor permission.

Focuses on the behavior of humans in social settings including attitudes, aggression, conformity, cooperation and competition, prejudice, and interpersonal attraction.(SS3)

**PSY 227 PSYCHOLOGY OF DEATH AND DYING/3(3-0-0)**

Examines the philosophies of life and death, emphasizing dying, death, mourning, and the consideration of one`s own death.(SS3)

**PSY 235 HUMAN GROWTH & DEVELOPMENT/3(3-0-0)**

Examines human development from conception through death emphasizing physical, cognitive, emotional and psychosocial factors.(SS3)

**PSY 237 CHILD AND ADOLESCENT PSYCHOLOGY/3(3-0-0)**

Explores human development from conception through adolescence, emphasizing physical cognitive, emotional, and psychosocial factors.

**PSY 238 CHILD DEVELOPMENT/3(3-0-0)**

Focuses on growth and development of the individual from conception through childhood, emphasizing physical, cognitive, emotional, and psychosocial factors.(SS3)

**PSY 249 ABNORMAL PSYCHOLOGY/3(3-0-0)**

Prerequisite: 3 credits of general psychology or Instructor permission.

Examines abnormal behavior and its classification, causes, treatment, and prevention.(SS3)

**READING****REA 075 College Prep Reading 1/3(3-0-0)**

First semester of developmental reading. Covers topics as needed by students, from learning to read with fluency and comprehension through identifying main points, supporting points and details, and organizational patterns; to making inferences; identifying audience, purpose, tone, point of view, and bias; and distinguishing fact from opinion.

**SMALL BUSINESS MANAGEMENT****SBM 101 STARTING A SMALL BUSINESS/1(1-0-0)**

Provides a brief overview of various topics related to starting a small business. Some topics are types of businesses, location, image, insurance, permits, and licenses.

**SBM 106 RECORDKEEPING FOR A SMALL BUSINESS/1(1-0-0)**

Provides an overview of recordkeeping for a small business. Students learn basic bookkeeping skills and key recordkeeping requirements.

**SBM 108 MARKETING FOR A SMALL BUSINESS/1(1-0-0)**

Provides a brief overview of the marketing functions applied to a small business. Topics include planning a marketing strategy, promoting a business, competitive analysis, and customers and prospects.

**SCIENCE**

*Statewide Guaranteed Transfer courses will be designated with (SC1)*

**SCI 155 INTEGRATED SCIENCE I/4(4-0-0)**

Examines the nature of energy and matter, their interactions and changes, and the application of

fundamental concepts to the study of our natural world.(SC1)

**SCI 156 INTEGRATED SCIENCE II/4(4-0-0)**

Examines earth and biological systems, living and non-living environments, through the application and refinement of fundamental energy and matter concepts. (SC1)

**SOCIOLOGY**

*Statewide Guaranteed Transfer courses will be designated with (SS3)*

**SOC 101 INTRODUCTION TO SOCIOLOGY I/3(3-0-0)**

Examines the basic concepts, theories, and principles of sociology as well as human culture, social groups, and the social issues of age, gender, class, and race.(SS3)

**SOC 102 INTRODUCTION TO SOCIOLOGY II/3(3-0-0)**

Examines social institutions and organizations from the macro perspective. Emphasizes issues of social change, demography, social movements, and conflicts and trends within education, religion, family, political, and economic structures. (SS3)

**SOC 205 SOCIOLOGY OF FAMILY DYNAMICS/3(3-0-0)**

Prerequisite: SOC 101 or consent of the instructor.

Develops an understanding of marriage, family and kinship. It examines the family as an institution and how social, cultural and personal factors influence family relations. The stability and diversity of the family will be explored, along with current trends and some alternative lifestyles.(SS3)

**SOC 215 CONTEMPORARY SOCIAL PROBLEMS/3(3-0-0)**

Explores current social issues that result in societal problems. It focuses on such issues as civil liberties, gender discrimination, substance abuse, crime, poverty, and social change.(SS3)

**SOC 216 SOCIOLOGY OF GENDER/3(3-0-0)**

Gives students the theoretical and factual background necessary to understand the phenomenon of gender stratification in American and other cultures. Students will be exposed to a history of gender stratification in human societies, theoretical explanations for this and

insights into the consequences of gender differentiation in our world today. (SS3)

**SOC 231 THE SOCIOLOGY OF DEVIANT BEHAVIOR/3(3-0-0)**

Examines the nature, identification, and explanation of deviant categories. Theories, and philosophies as well as methods of treatment related to deviancy will also be considered. The course will study society's attempts to control, change, and institutionalize those acts, individuals or groups that a population may deem unacceptable.(SS3)

**SOC 237 SOCIOLOGY OF DEATH AND DYING/3(3-0-0)**

Prerequisite: ENG 090 or testing into ENG 121. Provides an opportunity to familiarize students and professionals with the needs and issues surrounding dying and death. This course will provide sociological, psychological, religious, historical and anthropological perspectives for interpreting contemporary American customs dealing with dying, death and bereavement. We will examine the professions associated with death and dying, such as hospice, funeral and crematory institutions, and medical care. (SS3)

**SPANISH**

*Statewide Guaranteed Transfer courses will be designated with (AH4)*

**SPA 101 CONVERSATIONAL SPANISH I/3 (3-0-0)**

Offers beginning students the skills necessary to understand and speak Spanish. The material includes basic vocabulary, grammar, and expressions that are used in daily situations and in travel.

**SPA 102 CONVERSATIONAL SPANISH II/3 (3-0-0)** Prerequisite: SPA 101 or permission of instructor.

Offers students the skills necessary to understand and speak Spanish. The material continues to cover basic conversations patterns, expressions, and grammar.

**SPA 111 SPANISH LANGUAGE I/5(5-0-0)**

Deals with the development of functional proficiency in listening, speaking, reading and writing the Spanish language. Note: The order of the topics and methodology will vary according to individual texts and instructors.

**SPA 112 SPANISH LANGUAGE II/5(5-0-0)**

Prerequisite: SPA 111 or permission of instructor.

Continues Spanish Language I in the development of functional proficiency in listening, speaking, reading and writing the Spanish language. Note: The order of the topics and the methodology will vary according to individual texts and instructors.

**SPA 115 SPANISH FOR THE PROFESSIONAL I/3(3-0-0)** Prerequisite: College Level Reading.

Designed as an introduction to a working knowledge of the target language, cultural behaviors and values useful in various professional fields such as health care, law enforcement, bilingual education, business, and others.

**SPA 211 SPANISH LANGUAGE III/3(3-0-0)**

Prerequisite: SPA 112 or permission of instructor.

Continues Spanish Language I and II in the development of increased functional proficiency in listening, speaking, reading and writing the Spanish language. Note: The order of the topics and the methodology will vary according to individual texts and instructors.(AH4)

**SPA 212 SPANISH LANGUAGE IV/3(3-0-0)**

Prerequisite: SPA 211 or permission of instructor.

Continues Spanish Language I, II and III in the development of increased functional proficiency in listening, speaking, reading and writing the Spanish language. Note: The order of the topics and the methodology will vary according to individual texts and instructors.(AH4)

**THEATER**

*Statewide Guaranteed Transfer courses will be designated with (AH1)*

**THE 105 INTRODUCTION TO THEATRE ARTS/3(3-0-0)**

Includes discussions, workshops, and lectures designed to discover, analyze and evaluate all aspects of the theatre experience: scripts, acting, directing, staging, history, criticism and theory.(AH1)

**THE 131 THEATRE PRODUCTION I/3(0-6-0)**

Prerequisite: ENG 060, REA 090, THE 111, and/or THE 112 or Instructor permission. Allows students to put into practice theories of theatre production. Participation in set

construction, scenic artistry, costuming, lighting, sound, acting, stage managing, and administration is available.

**THE 132 THEATRE PRODUCTION II/3(0-6-0)**

Prerequisite: ENG 060, REA 090, THE 111, and/or THE 112 or Instructor permission.

Allows students to put into practice theories of theatre production. Participation in set construction, scenic artistry, costuming, lighting, sound, acting, stage managing, and administration is available.

**THE 135 STAGE MAKEUP I/2(2-0-0)**

Covers makeup design and application techniques. Techniques include basic corrective, character, old age, and fantasy application.

**THE 211 DEVELOPMENT OF THEATRE I/3(3-0-0)**

Surveys the history and evolution of drama from Ancient Greece to the Renaissance, emphasizing all aspects of the art from period values to analysis of dramatic literature and performance. (AH1)

**THE 212 DEVELOPMENT OF THEATRE II/3(3-0-0)**

Surveys the history and evolution of drama from the Renaissance to the present, emphasizing all aspects of the art from period values to the analysis of dramatic literature and performance. (AH1)